

**CORNELL UNIVERSITY
ANNOUNCEMENTS**

AUGUST 21, 1963

**MEDICAL COLLEGE
1963—1964**

CORNELL UNIVERSITY ANNOUNCEMENTS

The Cornell Announcements are designed to give prospective students and others information about the University. The prospective student should have a copy of *General Information*; after consulting that, he may wish to write for one or more of the following Announcements:

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Announcements of the College of Engineering may also be obtained. Please specify if the information is for a prospective student.

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CORNELL UNIVERSITY

THE MEDICAL COLLEGE

1963-1964

**1300 York Avenue
New York 21, New York
Telephone: Trafalgar 9-9000**

1963

July						
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CALENDAR

1963

June 17	Registration; instruction begins for fourth year, first division
July 4	Independence Day, holiday
August 9	Second division begins for fourth year
September 2	Labor Day, holiday
September 5 & 6	Examinations for conditioned students
September 6 & 9	Registration for first, second, and third years
September 9	Opening Exercises, 3:30 p.m.
September 10	Instruction begins for first, second, and third years
October 2	Third division begins for fourth year
October 12	Columbus Day, holiday
November 22	End of fall term for first and second years, 5 p.m.
November 25	Fourth division begins for fourth year
November 25-30	Examinations for first and second years
November 27	End of fall term for third year, 1 p.m.
November 28	Thanksgiving Day, holiday
November 29	Beginning of winter term for third year
December 2	Beginning of winter term for first and second years
December 21	Instruction ends 1 p.m., Christmas recess begins
December 25	Christmas Day, holiday

1964

January 1	New Year's Day, holiday
January 6	Christmas recess ends, instruction begins
January 31	Fifth division begins for fourth year
February 22	Washington's Birthday, holiday
February 28	Winter term ends, 5 p.m.
March 1-8	Spring recess for third and fourth years
March 2-7	Examinations, first and second years
March 8-15	Spring recess for second year
March 9	Spring term begins for first and third years
March 16	Spring term begins for second year
April 1	Sixth division begins for fourth year
April 12-19	Spring recess for first year
May 22	Instruction ends for fourth year
May 23	Instruction ends for third year
May 25-28	Examinations for fourth year
May 25-June 2	Examinations for third year
May 29	Instruction ends for first and second years
May 30	Memorial Day, holiday
June 1-3	Examinations for first and second years
June 3	Commencement, 3 p.m.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

THE CENTER was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

JOSEPH C. HINSEY, *Director,*

The New York Hospital-Cornell Medical Center

FREDERICK K. TRASK, JR.

ARTHUR H. DEAN

FREDERIC W. ECKER

STANTON GRIFFIS

HAMILTON HADLEY

FRANCIS KERNAN

JAMES A. PERKINS

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$..... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$....."

If for the Center, the language may be: "I give and bequeath to the New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$....."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.



*New York Hospital—
Cornell Medical Center*

OFFICERS OF ADMINISTRATION

JAMES A. PERKINS, *President of the University*
JOHN E. DEITRICK, *Dean of the Medical College*
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RICHARD H. SAUNDERS, JR., *Associate Dean*
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ANNA FRANCES BURKE, *Librarian*
WILLIAM C. COPPERSMITH, *Director of Development*

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VINCENT DU VIGNEAUD	WALSH McDERMOTT
JOHN A. EVANS	ROBERT F. PITTS
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JOHN G. KIDD	ROY C. SWAN

LAWRENCE W. HANLON, *Secretary*

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JAMES R. MCCARROLL
THOMAS H. MEIKLE, JR.
RICHARD H. SAUNDERS, JR.
ALPHONSE E. TIMPANELLI

ANIMAL CARE

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JOHN M. BEAL
E. LOVELL BECKER
GRAHAM JEFFRIES
RICHARD C. KARL
ALVIN SELLERS
HOWARD G. WORTHEN

CURRICULUM

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HEINZ F. EICHENWALD
HAROLD HEMPLING
DONALD G. JOHNSON
EDWIN D. KILBOURNE
WALTER MODELL
ZUHEIR MUJAHED
GEORGE G. READER
GOETZ W. RICHTER
LAWRENCE W. HANLON, *ex officio*
JOHN E. DEITRICK, *ex officio*

* The Dean is ex officio a member of all committees.

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GEORGE B. BROWN

HARRY W. BURNETT

ERIC T. CARLSON

LAWRENCE W. HANLON

VERONICA LYONS

JOHN MACLEOD

VICTOR F. MARSHALL

JULIAN R. RACHELE

PAULINE M. VAILLANCOURT

ANNA FRANCIS BURKE, *Librarian*

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DANA C. BROOKS

THOMAS KILLIP III

GEORGE E. MURPHY

RICHARD H. SAUNDERS, JR.

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JOHN E. DEITRICK, *Chairman*

Heads of departments, or their representatives, responsible for the more important courses of each year.

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WILLIAM D. CASH

WILBUR D. HAGAMEN

EDWARD W. HOOK, JR.

DANIEL S. LUKAS

RICHARD H. SAUNDERS, JR.

FRANK G. STANDAERT

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JOHN M. MCLEAN

S. W. MOORE

JULIAN R. RACHELE

RICHARD H. SAUNDERS, JR.

FACULTY*

JAMES A. PERKINS, A.B., Ph.D., *President of the University.*

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
RUSSELL L. CECIL, M.D. [1916; 1950]	<i>Clinical Professor of Medicine</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JAMES M. NEILL, M.D. [1931; 1962]	<i>Professor of Microbiology and Immunology</i>
CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery (Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

THOMAS P. ALMY, <i>Professor of Medicine.</i> Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. (A.B. 1935, M.D. 1939, Cornell. [1940; 1957])
JOSEPH F. ARTUSIO, JR., <i>Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology.</i> Anesthesiologist-in-Chief, New York Hospital. (B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957])
GORAN C. H. BAUER, <i>Professor of Surgery (Orthopedics).</i> Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. (M.D. 1948, Karolinska Institute, Sweden. [1963])
LEONA BAUMGARTNER, <i>Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics.</i> Associate Attending Pediatrician, New York Hospital. (A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958])
ALEXANDER BRUNSCHWIG, <i>Clinical Professor of Surgery.</i> Attending Surgeon, Memorial Hospital. (B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947])

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- JOSEPH H. BURCHENAL, *Professor of Medicine*, Attending Physician, Memorial Hospital. (M.D. 1937, Pennsylvania. [1949; 1952])
- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. (B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960])
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. (M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955])
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957])
- EDWARD H. DENNEN, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1919, Tufts. [1933; 1958])
- R. GORDON DOUGLAS, *Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. (M.D.C.M. 1924, McGill. [1932; 1949])
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. (A.B. 1927, M.D. 1930, Cornell. [1932; 1961])
- VINCENT DU VIGNEAUD, *Professor of Biochemistry (Chairman)*. (B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938])
- HEINZ F. EICHENWALD, *Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1946, Harvard; M.D. 1950, Cornell. [1951; 1961])
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. (B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953])
- CLAUDE F. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953])
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. (A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957])
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962])
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. (M.D. 1927, Washington University. [1932; 1947])
- HARRY GOLD, *Clinical Professor of Pharmacology*. (A.B. 1919, M.D. 1922, Cornell. [1922; 1947])
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. (A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962])
- JOHN R. HELLER, *Clinical Professor of Public Health*. President, Memorial Sloan-Kettering Cancer Center. (B.S. 1925, Clemson; M.D. 1929, Emory. [1962])
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*, Director, New York Hospital-Cornell Medical Center. (B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956])
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. (A.B. 1927, M.D. 1931, Stanford. [1932; 1958])
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Sciences. (B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960])
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. (A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957])
- JOHN G. KIDD, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. (A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944])
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. (A.B. 1942, M.D. 1944, Cornell. [1955; 1961])
- MILTON L. KRAMER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1926, M.D. 1929, Columbia. [1935; 1960])
- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. (A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957])
- GEORGE M. LEWIS, *Clinical Professor of Medicine (Dermatology)*. Attending Physician (Dermatology), New York Hospital; Consulting Dermatologist, Memorial Hospital. (M.D. 1925, University of Alberta; L.M.C.C. 1925, Medical College of Canada. [1932; 1949])
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending

8 CORNELL MEDICAL COLLEGE

- Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963])
- WILLIAM T. I. HAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. (A.B. 1936, M.D. 1940, Stanford. [1962])
- E. HUGH LUCKEY, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1957])
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. (M.D. 1937, Virginia. [1938; 1957])
- WALLACE W. McCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. (B.S. 1941, M.D. 1944, University of Wisconsin. [1961])
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. (A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955])
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. (A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962])
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. (M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943])
- ROBERT C. MELLORS, *Professor of Pathology*. Director of Laboratory and Pathology, Hospital for Special Surgery. (A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961])
- ADE T. MILHORAT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1924, Columbia; M.D. 1928, Cornell. [1933; 1956])
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. (B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961])
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. (B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956])
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1928, M.D. 1931, Columbia. [1933; 1960])
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- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. (A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963])
- ROBERT F. PITTS, *Professor of Physiology*. (B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950])
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology in Medicine*. Neurologist-in-Chief, New York Hospital. (B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963])
- HENRY T. RANDALL, *Professor of Surgery*, Clinical Director and Chairman, Department of Surgery, Memorial Hospital. (A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951])
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. (M.B. 1937, M.D. 1938, Northwestern. [1948; 1951])
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- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. (B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956])
- WILLIAM F. SCHERER, *Professor of Microbiology and Immunology*. (M.D. 1947, University of Rochester. [1962])
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. (Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958])

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- PRESTON A. WADE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1922, M.D. 1925, Cornell. [1927; 1953])
- JAMES H. WALL, *Clinical Professor of Psychiatry*. Medical Director, New York Hospital, Westchester Division. (M.D. 1927, Jefferson. [1933; 1958])
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (M.D. 1934, Virginia. [1946; 1960])
- IRVING S. WRIGHT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1923, M.D. 1926, Cornell. [1946; 1949])

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- LARS ANDREN, *Visiting Associate Professor of Radiology*. (M.D. 1936, University of Lund. [1963])
- JAMES SCHOONOVER ARNOLD, *Associate Professor of Radiopathology*. (B.S. 1944, M.D. 1947, Duke. [1963])
- WILLIAM A. BARNES, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1946])
- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (M.D. 1949, Johns Hopkins [1953; 1962])
- JOHN M. BEAL, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. (B.S. 1937, M.D. 1941, Chicago University. [1942; 1953])
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Assistant Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. (A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961])
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962])
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961])
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. (B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950])
- ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. (M.B.Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963])
- HARRY W. BURNETT, JR., *Associate Professor of Radiology*. Attending Radiologist, New York Hospital. (A.B. 1940, Miami University; M.D. 1943, Northwestern. [1948; 1953])
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology in Surgery*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. (B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962])
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- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital; Assistant Visiting Surgeon, Bellevue Hospital. (B.S. 1933, Lafayette College; M.D. 1937, Yale. [1938; 1955])
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- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale [1938; 1956])
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962])
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- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy); Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician, New York Hospital. (M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1963])
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1947, Georgetown University. [1952; 1962])
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1947, Cornell. [1949; 1960])
- JOHN W. DRAPER, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital; Visiting Surgeon in Charge of Urological Service, Bellevue Hospital. (A.B. 1927, Dartmouth; M.D. 1931, Cornell. [1932; 1949])
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. (A.B. 1941, M.D. 1944, Cornell. [1949; 1962])
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960])
- MURRAY DWORETZKY, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1961])
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital; Visiting Surgeon, Bellevue Hospital. (B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946])
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Dental Surgeon in Charge, New York Hospital. (D.M.D. 1931, Harvard. [1933; 1953])
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959])
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957])
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician

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- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961])
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (B.S. 1926, M.D. 1930, Virginia. [1950; 1960])
- AARON FEDER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (M.D. 1938, Maryland. [1941; 1959])
- FREDERIC F. FIACH, *Clinical Associate Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962])
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959])
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. (B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959])
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (A.B. 1929, M.D. 1931, Texas. [1950; 1958])
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. (M.D. 1949, Tufts. [1955; 1963])
- RANDOLPH GEPFERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1929, Georgia. [1941; 1956])
- JAMES L. GERMAN III, *Associate Professor of Medicine; Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.S. 1945, Louisiana Polytechnic Institute, M.D. 1949, Southwestern. [1963])
- GERHARD GIEBISCH, *Associate Professor of Physiology*. (M.D. 1951, University of Vienna. [1954; 1960])
- HELENA GILDER, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Surgery*. (A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963])
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960])
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- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. (A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960])
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1929, M.D. 1932, Michigan. [1944; 1948])
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- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1925, M.D. 1928, Cornell. [1934; 1959])
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- LAWRENCE W. HANLON, *Associate Dean*. (A.B. 1935, M.D. 1938, Cornell. [1946; 1955])
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- ULRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. (Ph.D. 1937, M.D. 1939, University of Berlin. [1956])
- LAWRENCE E. HINKLE, JR., *Clinical Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Assistant Attending Physician, New York Hospital. (A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956])
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- WILLIAM S. HOWLAND, *Associate Professor of Anesthesiology in Surgery*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. (B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954])
- DONALD G. JOHNSON, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1957])
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949])
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Associate Visiting Physician, Bellevue Hospital. (B.S. 1931, M.D. 1935, Indiana. [1941; 1961])
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- DAVID A. KARNOFSKY, *Associate Professor of Medicine*. Attending Physician, Memorial Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1952])
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- AARON KELLNER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1934, Yeshiva University; M.S. 1935, Columbia; M.D. 1939, University of Chicago. [1946; 1953])
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- HEDWIG KOENIG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1918, Barnard; M.A. 1920, Columbia; M.D. 1929, Johns Hopkins. [1935; 1959])
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. (A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959])
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. (B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962])
- EIMER E. KRAMER, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (B.S. 1935, M.D. 1938, Tulane. [1946; 1957])
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- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958])
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- DOROTHEA C. LEIGHTON, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. (A.B. 1930, Bryn Mawr; M.D. 1936, Johns Hopkins. [1957; 1958])

- MILTON I. LEVINE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1954])
- CHARLES S. LIEBER, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (M.D. 1955, University of Brussels. [1963])
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- ROBERT M. LINTZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery; Visiting Physician, Bellevue Hospital. (A.B. 1924, M.D. 1927, Cornell. [1932; 1961])
- MARTIN LIPKIN, *Associate Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (A.B. 1946, M.D. 1950, New York University. [1955; 1963])
- MARY H. LOVELESS, *Clinical Associate Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. (A.B. 1921, M.D. 1925, Stanford. [1939; 1948])
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1944, M.D. 1947, Columbia. [1948; 1957])
- JOHN MACLEOD, *Associate Professor of Anatomy*. (A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949])
- EDWARD C. MANN, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (B.A. 1946, M.D. 1950, Tulane. [1954; 1962])
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- GORDON P. McNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (M.D. 1931, Pennsylvania. [1950; 1960])
- WALTER MODEL, *Associate Professor of Pharmacology*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1954])
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- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951])
- GEORGE T. PACK, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. (B.S. 1920, Ohio State; M.D. 1922, Yale. [1935; 1950])
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; Visiting Assistant in Charge of Neurosurgery, Bellevue Hospital. (A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954])
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. (A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959])
- RALPH E. PETERSON, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (B.S. 1940, M.S. 1941, Kansas State; M.D. 1946, Columbia. [1958])
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- tion Therapist, Memorial Hospital. (B.S.M.B. 1928, M.S. 1930, University of London; D.M.R.E. 1933, Royal College of England. [1950; 1951])
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- HAROLD R. WAINERDI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. (A.B. 1943, Long Island University; M.D. 1947, Boston University. [1952; 1963])
- WILLIAM H. WAINWRIGHT, *Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (M.D. 1949, University of Chicago. [1954; 1959])
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963])
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960])
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963])
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963])
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958])
- LOUIS E. WEYMULLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949])
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. (B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944])
- ERIC E. WINDHAGER, *Assistant Professor of Physiology*. (M.D. 1954, University of Vienna. [1958; 1963])
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963])
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956])

GENERAL STATEMENT

HISTORY

CORNELL UNIVERSITY Medical College was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical faculty and appointed six professors. The Medical College was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the original building, located at 28th Street and First Avenue, and who pledged his support to the new institution. For several years he provided funds for the annual support of the college and later placed the institution on a secure foundation by making generous provision for its permanent endowment by a gift of over four million dollars.

In October, 1898, instruction began in temporary quarters. As the Medical College admitted a number of students to advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities: the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conduct teaching of high order but also to study disease and the sciences underlying medicine with the purpose of adding to medical knowledge.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Cornell University Medical College and the New York Hospital have been cooperating for a long time in an arrangement for medical teaching. In September, 1932, however, the two institutions took up occupancy in the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the Hospital and the Medical College had been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and The Society of the New York Hospital, formalizing their affiliation for the purpose of bringing together their facilities and cooperating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the Hospital and of the Medical College, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of this organization, the New York Hospital-Cornell Medical Center, was approved in 1953.

Additional endowment was secured by each institution. A group of buildings was erected along the East River between 68th and 71st streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments and includes approximately 1220 hospital beds. Provision is made for anesthesiology, medicine, surgery, obstetrics, and gynecology, pediatrics, psychiatry, and radiology in seven distinct clinical units.

The faculty of the Medical College and the professional staff of the Hospital are organized so as to form one body established on a university basis.

The new plant affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

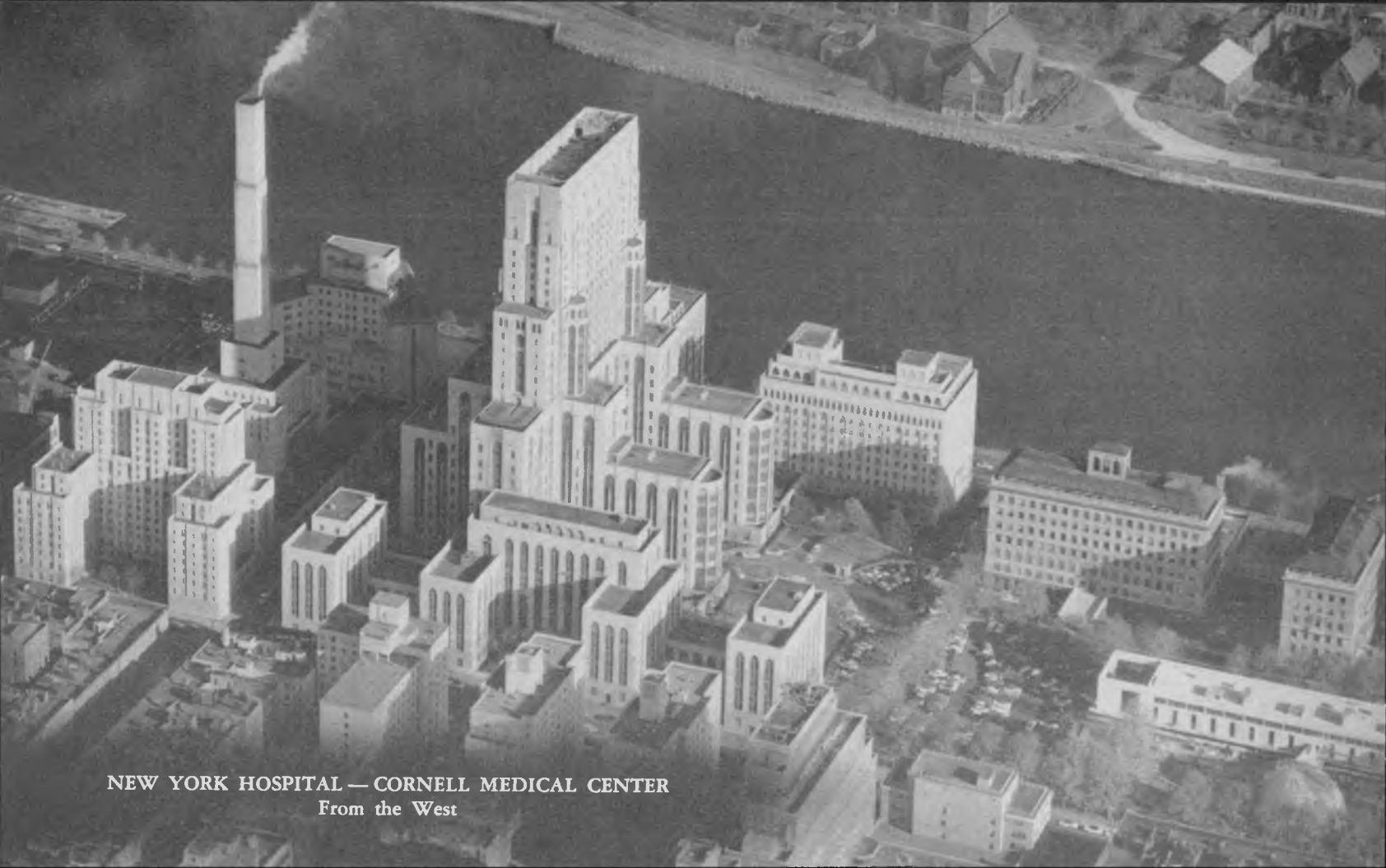
FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

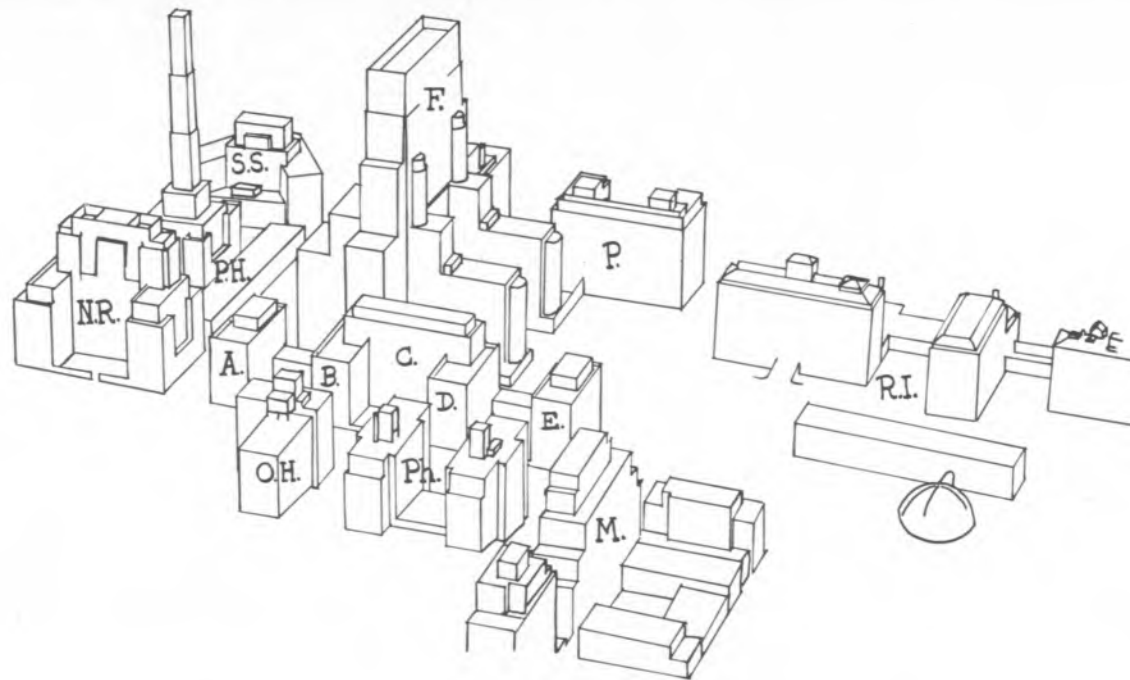
CORNELL MEDICAL COLLEGE . . . Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

NEW YORK HOSPITAL . . . Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central



NEW YORK HOSPITAL — CORNELL MEDICAL CENTER
From the West



Key to the Photograph on the Opposite Page.

- | | |
|--|---|
| <i>A. Anatomy.</i> | <i>N.R. Nurses' Residence.</i> |
| <i>B. Microbiology and Immunology.</i> | <i>O.H. Olin Hall.</i> |
| <i>C. Administration and Pathology.</i> | <i>P. Payne Whitney Psychiatric Clinic.</i> |
| <i>D. Physiology.</i> | <i>Ph. Phipps Houses.</i> |
| <i>E. Biochemistry and Pharmacology.</i> | <i>P.H. Power and Maintenance.</i> |
| <i>F. New York Hospital.</i> | <i>R.I. Rockefeller Institute.</i> |
| <i>M. Memorial Hospital.</i> | <i>S.S. Hospital for Special Surgery.</i> |

hospital building, with six pavilions for bed patients, three floors for its outpatient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

OTHER HOSPITALS FOR CLINICAL INSTRUCTION

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staffs who are also members of the Medical College faculty.

BELLEVUE HOSPITAL . . . Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY . . . The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL . . . Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

THE LOOMIS LABORATORY

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

THE LIBRARY

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

THE RUSSELL SAGE INSTITUTE OF PATHOLOGY

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

THE FACULTY of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

3. Persons who, while not possessing a Bachelor's degree, give evidence by examination that they have acquired an equivalent education and a training sufficient to enable them to profit by the instruction offered in the Medical College. This rule is intended to apply to students of foreign universities.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. The list contains a total of twenty-seven credit points, which probably represent sufficient time to enable the student to obtain a basic preparation in these different fields. In many colleges, however, additional credits in one or more of these departments are required of the candidate in order to satisfy major requirements for the degree. In making the choice of elective courses, consideration should be given to the principle that thorough training in the sciences is essential. On the other hand, choosing too many elective courses in these departments may not provide the most acceptable preparation for medicine, since it tends to limit the time available for study in other departments offering work of a broad educational value. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect

subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1000 applicants. The members of the committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, soundness of personality, and adequate financial responsibility that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York 21, N.Y. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be

completed during the fall, and no application will be accepted after December 15. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing.

Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for re-admission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.
2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.
3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.
4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well

recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

ALL FEES for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York 21, N.Y.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10.00

ACCEPTANCE DEPOSIT \$50.00

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1963:

TUITION FEE (for academic year) \$1,500.00

COMPREHENSIVE FEE (for academic year) \$ 200.00

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

Matriculation Fee

Student Hospitalization Insurance (for calendar year)

This insurance is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. This insurance plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

Student Health Service

Described below.

Graduation Fee and rental fee for cap and gown for graduation exercises.



BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$135 a year, distributed as follows: first year, \$150; second year, \$215; third year, \$125; fourth year, \$50.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. OLIN HALL, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

LIVINGSTON FARRAND APARTMENTS FOR MARRIED STUDENTS, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ rooms are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuber-

culin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

PRIZES

1. *FOR GENERAL EFFICIENCY.* In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. *FOR EFFICIENCY IN OTOLARYNGOLOGY.* This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this speciality.

3. *FOR EFFICIENCY IN OBSTETRICS.* Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. *FOR EFFICIENCY IN GENERAL MEDICINE.* The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. *THE MARY ALDRICH FUND.* In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1963 the William Mecklenburg Polk Prize awards for research were:

First prize: Alexander G. Reeves.

Second prize: Alfred F. Parisi.

6. *THE WILLIAM C. THRO MEMORIAL FUND*. Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. *THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY*. Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If in any year no student merits the distinction the award will be withheld.

8. *THE BORDEN UNDERGRADUATE RESEARCH AWARD*. The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1963 was awarded to Michael D. Gershon.

9. *THE GOOD PHYSICIAN AWARD*. A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. *CHARLES L. HORN PRIZE FUND.* The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. *THE SAMUEL HOLLANDER PRIZE.* The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. *THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.* Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. *THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.* A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

SCHOLARSHIPS

1. *THE JOHN METCALFE POLK SCHOLARSHIP.* A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty. The scholarship amounts to about \$200 a year.

2. *THE THORNE SHAW SCHOLARSHIP FUND* provides three scholarships designated as:

First: A scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: Two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

These scholarships are awarded by the faculty upon nomination by the Committee on Scholarships and Prizes. They are awarded annually in June and are for one year only. Students receiving the scholarships are notified of the award at the end of the session.

3. *MARY F. HALL SCHOLARSHIP.* The income, amounting to about \$180 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. *THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.* A five thousand dollar fund established in 1936, the income from which is

annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. *THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.*

A five thousand dollar fund established in 1939, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. *THE JEREMIAH S. FERGUSON SCHOLARSHIP.* Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which, approximately \$200 a year, is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. *THE CHARLES RUPERT STOCKARD SCHOLARSHIP.* A ten thousand dollar fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest of this fund is to be awarded either to one student (approximately \$400) or to two students (approximately \$200 each) who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. *THE DR. JOHN A. HEIM SCHOLARSHIPS.* Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. *THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.* Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance. The income from this endowment amounts to about \$100 yearly.

10. *THE DR. JACQUES SAPHIER SCHOLARSHIP FUND.* Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of

1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. *THE ELISE STRANG L'ESPERANCE SCHOLARSHIP* was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. *THE SAGAN FOUNDATION SCHOLARSHIP*. An annual scholarship of \$500 to be awarded to a student in Cornell University Medical College, to be selected by the College on the basis of scholarship and need, without reference to race, color, sex, or creed. A special blank issued by the Sagan Foundation should be obtained from the Dean's Office by students making application for this scholarship.

13. *THE RUTH HOLLOHAN SCHOLARSHIP FUND* was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

14. *THE WALLACE D. GARRABRANDT SCHOLARSHIP*. Established by Mabel G. Gormley. This scholarship, amounting to approximately \$200, is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

15. *LEONA E. TODD SCHOLARSHIP*. Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College. The income from the gift is approximately \$800 per year.

16. *FUND FOR TRAINING IN PSYCHIATRY*. A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

17. *DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND*. Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

18. *THE LILLIAN M. CHARLES SCHOLARSHIP FUND* was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

19. *VIVIAN B. ALLEN SCHOLARSHIP*. Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

20. *MARY LOUISE WUESTER SCHOLARSHIP*. Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

21. *ROBERT E. SPENO SCHOLARSHIP*. Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

22. *ELIZABETH AND NEILL HOUSTON SCHOLARSHIP*. Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

23. *DR. HARRY ENO SCHOLARSHIP ENDOWMENT*. Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

24. *TUITION AID FOR ENTERING STUDENTS*. A limited amount of scholarship assistance is available for entering students. The need for scholarship assistance should be discussed at the admissions interview, and inquiries about this aid should be directed to the Admissions Committee chairman.

25. *THE JOSEPH P. FERRIGAN FUND*. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

26. *THE THOMAS RENNIE SCHOLARSHIP FUND*. Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

27. *THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP*. The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

28. *THE COPPERMINES FOUNDATION SCHOLARSHIP*. Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

29. *THE MARY E. C. CANTLE SCHOLARSHIP FUND* was established by a bequest from Mary E. C. Cante. The income will provide scholarships for worthy students in the Medical College.

30. *MR. AND MRS. BENJAMIN J. LEVY SCHOLARSHIP*. This fund was established by Mr. and Mrs. Benjamin J. Levy to provide financial assistance for worthy and needy medical students.

31. *THE AVALON FOUNDATION SCHOLARSHIP FUND* was established by a grant from the Avalon Foundation. It is available for students in good academic standing who are in need of financial assistance.

32. *THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP.* A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

33. *JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND.* This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

34. *THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND* was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

35. *DR. EDWARD HOENIG SCHOLARSHIP FUND.* This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig, '10. The income is to provide financial assistance for needy but worthy students.

36. *BARBARA V. AND WILLIAM T. HAY SCHOLARSHIP.* Funds are given annually by the officers and directors of the J. C. Kellogg Foundation as scholarship support for a student of high scholastic standing who would otherwise be unable to receive his medical education.

37. *THE PFIZER LABORATORIES SCHOLARSHIP,* in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

38. *THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT* of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

39. *THE WELD FUND SCHOLARSHIP.* Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

40. *THE CARL J. SCHMIDLAPP MEMORIAL FUND.* Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

BURSARY FOR WOMEN STUDENTS

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing

leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

LOAN FUNDS

1. *THE 1923 LOAN FUND.* The income from this fund amounts to \$350 a year and is available as a loan to students needing financial assistance, preferably to a third year student.

2. *ALUMNI ASSOCIATION LOAN FUNDS.* The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. *STUDENT LOAN FUND.* A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. *JOSEPH C. HINSEY LOAN FUND.* Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. As aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1962 were Arthur J. Atkinson, Jr., Terrence J. Barry, H. Spencer Bloch, Francis M. Bohan, Edward M. Copeland III,

Steven D. Douglas, Thomas P. Forde, Michael D. Gershon, Jonathan V. Goldstein, Philip V. Mead, Conner M. Moore, Timothy B. Moritz, Alfred F. Parisi, and Kirk L. Peterson.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

OFFICERS

George Schaefer '37	<i>President</i>
Alphonse E. Timpanelli '36	<i>Vice President</i>
Frederic T. Kirkham, Jr. '47	<i>Secretary</i>
Henry Mannix, Jr. '50	<i>Treasurer</i>
William A. Barnes '37	<i>Chairman, Alumni Fund</i>
William C. Coppersmith	<i>Coordinator of Alumni Activities</i>
Eleanor C. Knowles	<i>Executive Secretary</i>

DIRECTORS

<i>Three Year Term:</i>	Henry H. Kessler '19; Carolyn Diehl '50
<i>Two Year Term:</i>	Eric T. Carlson '50; Norman S. Moore '26; Maurice T. Root '18; J. James Smith '38
<i>One Year Term:</i>	Carlton M. Cornell '37; Roy C. Swan '47

BULLETIN

Richard T. Silver '53	<i>Editor</i>
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Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association, and the dues are \$10 a year. The activities of the Association include a quarterly publication, an annual banquet, student and faculty parties, student loan funds, and an employment bureau. The Association maintains an office at 1300 York Avenue.

An annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

THE MEDICAL COLLEGE is divided into twelve major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology and immunology, pathology, pharmacology, and public health. Five departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, and obstetrics and gynecology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING

LECTURER: Milton L. Zisowitz

A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

DESCRIPTION OF COURSES

ANATOMY

ROY C. SWAN, Professor of Anatomy (*Chairman*)

JOSEPH C. HINSEY, Professor of Neuroanatomy

WILBUR D. HAGAMEN, Associate Professor of Anatomy

ERNEST W. LAMPE, Clinical Associate Professor of Anatomy

JOHN MacLEOD, Associate Professor of Anatomy

LEONARD L. ROSS, Associate Professor of Anatomy

THANE ASCH, Clinical Assistant Professor of Anatomy

DOROTHEA BENNETT, Assistant Professor of Anatomy

DANA C. BROOKS, Assistant Professor of Anatomy

JOHN T. FINKENSTAEDT, Assistant Professor of Anatomy

NAOMI FITCH, Assistant Professor of Anatomy

WILLIAM A. GEOHEGAN, Clinical Assistant Professor of Anatomy

THOMAS H. MEIKLE, Jr., Assistant Professor of Anatomy

BETTISON E. SHAPIRO, Assistant Professor of Anatomy

Instructors:

Donald A. Fischman

Katherine M. Lyser

Benjamin D. Stinson

Research Fellows:

Krystyna D. Ansevin

Andrew J. Chiarod

Michael D. Gershon

Morton Schatzman

Richard G. Skalko

The study of human structure as a basis for the study and practice of medicine begins in the first trimester of the first year with courses in gross, microscopic, and developmental anatomy and genetics. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by functional or structural systems. The correlation of understanding of structure gained from these courses is encouraged by participation of certain staff members in two or more of the courses. The developmental basis for gross and microscopic structure and its variations is emphasized. The study of the structure of the brain and spinal cord begins in the second trimester and is coordinated with a study of the central nervous system through the cooperation of the staffs of the Departments of Anatomy and Physiology. The application of anatomical knowledge in diagnosis and treatment in medicine is demonstrated through clinical conferences and case presentations.

MICROSCOPIC ANATOMY . . . Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, X-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally

presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research techniques in microscopy, microtomy, histochemistry, tissue culture, and autoradiography are demonstrated. The functional and biochemical significance of fine structure is emphasized. Laboratory and lectures, 165 hours.

GROSS ANATOMY . . . Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY . . . The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy, presented in a manual but supplemented by lectures and demonstrations. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS . . . Lectures and laboratory are designed to help the student visualize basic embryological relationships and to introduce him to fundamental concepts and problems of human heredity. Lectures in embryology stress those areas of early development, fetal-maternal relations, and organogenesis which clarify aspects of adult function and structure, or which aid in the understanding of clinically important congenital defects. In the laboratory, the least easily visualized aspects of placentation and organogenesis are studied in both gross and serially sectioned material. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and human population genetics. Lecture and laboratory, 77 hours.

ELECTIVE COURSES

A. For second year students, third trimester.

1. Electrical Methods in Neuroanatomical Research. Dr. Brooks.
2. Advanced Genetics. Seminar on special topics in genetics; topic for each semester to be chosen according to special interests and requirements of students. Drs. Bennett and Fitch.
3. Clinical Anatomy. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Drs. Lampe and Swan.

B. For fourth year students during elective period.

4. Review Dissection of the Human Body.

GROSS ANATOMY FOR GRADUATES . . . Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY . . . An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH . . . Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

VINCENT DU VIGNEAUD, Professor of Biochemistry (*Chairman*)

ROY W. BONSNES, Associate Professor of Biochemistry

AARON S. POSNER, Associate Professor of Ultrastructural Biochemistry

JULIAN R. RACHELE, Associate Professor of Biochemistry

WILLIAM D. CASH, Assistant Professor of Biochemistry

HELENA GILDER, Assistant Professor of Biochemistry

JULIUS GOLUBOW, Assistant Professor of Biochemistry

S. STEVEN HOTTA, Assistant Professor of Biochemistry

THEODORE A. MAHOWALD, Assistant Professor of Biochemistry

Instructors:

John J. Ferraro
Barbara M. Ferrier

Edward T. Schubert

Research Associates:

Esther M. Breslow
Wah-Yip Chan

Maurice P. Manning
Donald H. Yamashiro

Research Fellow: Luis A. Branda

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERM . . . Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM . . . Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

ELECTIVES

ADVANCED LABORATORY WORK OR RESEARCH . . . By special arrangement.

COURSES OPEN TO SPECIAL STUDENTS

BIOCHEMISTRY . . . Fee, \$25 a term.

BIOCHEMICAL LITERATURE . . . Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION . . . Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY . . . By arrangement with the head of the department.

MEDICINE

E. HUGH LUCKEY, Professor of Medicine (*Chairman*)

THOMAS P. ALMY, Professor of Medicine

JOSEPH H. BURCHENAL, Professor of Medicine

ANTHONY C. CIPOLLARO, Clinical Professor of Medicine (Dermatology)

JOHN E. DEITRICK, Professor of Medicine

HENRY S. DUNNING, Clinical Professor of Neurology in Medicine

CLAUDE E. FORKNER, SR., Clinical Professor of Medicine

RICHARD H. FREYBERG, Clinical Professor of Medicine

FRANK L. HORSFALL, JR., Professor of Medicine

MILTON L. KRAMER, Clinical Professor of Medicine

GEORGE M. LEWIS, Clinical Professor of Medicine (Dermatology)

ALLYN B. LEY, Professor of Medicine

ADE T. MILHORAT, Clinical Professor of Medicine

CARL MUSCHENHEIM, Clinical Professor of Medicine

FRED PLUM, Anne Parrish Titzell Professor of Neurology in Medicine

RULON W. RAWSON, Professor of Medicine

GEORGE G. READER, Professor of Medicine

J. JAMES SMITH, Clinical Professor of Medicine

ROBERT F. WATSON, Clinical Professor of Medicine

IRVING S. WRIGHT, Clinical Professor of Medicine

JEREMIAH A. BARONDESS, Clinical Associate Professor of Medicine

DAVID V. BECKER, Associate Professor of Medicine

- E. LOVELL BECKER, Associate Professor of Medicine
 KATHARINE BUTLER, Clinical Associate Professor of Medicine
 HENRY P. CARR, Clinical Associate Professor of Medicine
 EUGENE J. COHEN, Clinical Associate Professor of Medicine
 FRANK E. CORMIA, Clinical Associate Professor of Medicine (Dermatology)
 FARRINGTON DANIELS, JR., Associate Professor of Medicine (Dermatology)
 MURRAY DWORETZKY, Clinical Associate Professor of Medicine
 RALPH L. ENGLE, JR., Associate Professor of Medicine
 AARON FEDER, Clinical Associate Professor of Medicine
 WILLIAM T. FOLEY, Clinical Associate Professor of Medicine
 JAMES L. GERMAN III, Associate Professor of Medicine
 SIDNEY M. GREENBERG, Clinical Associate Professor of Medicine
 LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine
 ELLIOT HOCHSTEIN, Clinical Associate Professor of Medicine
 EDWARD W. HOOK, JR., Associate Professor of Medicine
 MELVIN HORWITH, Clinical Associate Professor of Medicine
 WILLIAM H. KAMMERER, Clinical Associate Professor of Medicine
 DAVID A. KARNOFSKY, Associate Professor of Medicine
 GEORGE L. KAUER, Clinical Associate Professor of Medicine
 B. H. KEAN, Clinical Associate Professor of Medicine (Tropical Medicine)
 FREDERIC T. KIRKHAM, JR., Clinical Associate Professor of Medicine
 GERALD H. KLINGON, Clinical Associate Professor of Neurology in Medicine
 JOHN S. LADUE, Clinical Associate Professor of Medicine
 CHARLES S. LIEBER, Associate Professor of Medicine
 ROBERT M. LINTZ, Clinical Associate Professor of Medicine
 MARTIN LIPKIN, Associate Professor of Medicine
 MARY H. LOVELESS, Clinical Associate Professor of Medicine
 DANIEL S. LUKAS, Associate Professor of Medicine
 ELLEN McDEVITT, Associate Professor of Medicine
 FLETCHER H. McDOWELL, Associate Professor of Neurology in Medicine
 W. P. LAIRD MYERS, Associate Professor of Medicine
 THEODORE W. OPPEL, Clinical Associate Professor of Medicine
 MARY ANN PAYNE, Clinical Associate Professor of Medicine
 RALPH E. PETERSON, Associate Professor of Medicine
 R. A. REES PRITCHETT, Clinical Associate Professor of Medicine
 WILLIAM C. ROBBINS, Clinical Associate Professor of Medicine
 SIDNEY ROTHBARD, Associate Professor of Medicine
 ALBERT L. RUBIN, Associate Professor of Medicine
 DONALD J. SIMONS, Clinical Associate Professor of Neurology in Medicine
 MARVIN H. SLEISINGER, Associate Professor of Medicine
 MARTIN SONENBERG, Associate Professor of Medicine
 CHESTER M. SOUTHAM, Associate Professor of Medicine
 ISRAEL STEINBERG, Clinical Associate Professor of Medicine
 PETER E. STOKES, Clinical Associate Professor of Medicine
 DAVID D. THOMPSON, Associate Professor of Medicine
 ALPHONSE E. TIMPANELLI, Clinical Associate Professor of Medicine
 DOUGLAS P. TORRE, Clinical Associate Professor of Medicine (Dermatology)
 PARKER VANAMEE, Associate Professor of Medicine
 BRUCE P. WEBSTER, Clinical Associate Professor of Medicine
 BYARD WILLIAMS, Clinical Associate Professor of Medicine
 FELIX WROBLEWSKI, Clinical Associate Professor of Medicine
- SEYMOUR ADVOCATE, Clinical Assistant Professor of Medicine
 KENNETH C. ARCHIBALD, Assistant Professor of Medicine (Physical Medicine and Rehabilitation)
 GEORGE C. ARMISTEAD, JR., Clinical Assistant Professor of Medicine
 SAM C. ATKINSON, Clinical Assistant Professor of Medicine (Dermatology)
 NILS U. BANG, Assistant Professor of Medicine
 LLOYD T. BARNES, Clinical Assistant Professor of Medicine
 CURTIS H. BAYLOR, Clinical Assistant Professor of Medicine
 RICHARD S. BENUA, Assistant Professor of Medicine
 CARL A. BERNTSEN, JR., Clinical Assistant Professor of Medicine
 NORMAN BRACHFELD, Assistant Professor of Medicine

KEEVE BRODMAN, Clinical Assistant Professor of Medicine
 J. ROBERT BUCHANAN, Assistant Professor of Medicine
 SUSAN T. CARVER, Assistant Professor of Medicine
 AARON D. CHAVES, Clinical Assistant Professor of Medicine
 WILLIAM N. CHRISTENSON, Assistant Professor of Medicine
 BAYARD D. CLARKSON, Assistant Professor of Medicine
 HARVEY S. COLLINS, Assistant Professor of Medicine
 PAUL DE GARA, Clinical Assistant Professor of Medicine (Allergy)
 PETER G. DENKER, Clinical Assistant Professor of Neurology in Medicine
 JOHN W. DOUGHERTY, Clinical Assistant Professor of Medicine (Dermatology)
 WILLIAM J. EISENMENGER, Clinical Assistant Professor of Medicine
 ALBERT J. ERDMANN, Jr., Clinical Assistant Professor of Medicine
 HENRY R. ERLE, Clinical Assistant Professor of Medicine
 GEORGE C. ESCHER, Clinical Assistant Professor of Medicine
 JOHN A. FINKBEINER, Clinical Assistant Professor of Medicine
 ALVIN H. FREIMAN, Clinical Assistant Professor of Medicine
 CONSTANCE FRIESS, Clinical Assistant Professor of Medicine
 GEORGE W. FRIMPTER, Assistant Professor of Medicine
 EUGENE D. FURTH, Assistant Professor of Medicine
 HORACE T. GARDNER, Clinical Assistant Professor of Medicine
 WILLIAM GELLER, Clinical Assistant Professor of Medicine
 ROBERT B. GOIBEY, Clinical Assistant Professor of Medicine
 CHARLES H. GOODRICH, Assistant Professor of Medicine
 MARY E. W. GOSS, Assistant Professor of Sociology in Medicine
 ERNEST GREENBERG, Clinical Assistant Professor of Medicine
 THOMAS C. GUTHRIE, Clinical Assistant Professor of Neurology in Medicine
 SUSAN J. HADLEY, Assistant Professor of Medicine
 LEONARD I. HEIMOFF, Clinical Assistant Professor of Medicine
 MILTON HELPERN, Clinical Assistant Professor of Medicine
 LAWRENCE B. HOBSON, Clinical Assistant Professor of Medicine
 EUGENE I. HORGER, Clinical Assistant Professor of Medicine
 HERBERT I. HOROWITZ, Assistant Professor of Medicine
 RAYMOND W. HOUDE, Assistant Professor of Medicine
 ABRAHAM S. JACOBSON, Clinical Assistant Professor of Medicine
 GRAHAM H. JEFFRIES, Assistant Professor of Medicine
 DONALD KAYE, Assistant Professor of Medicine
 LEMOYNE C. KELLY, Clinical Assistant Professor of Medicine
 THOMAS KILLIP III, Assistant Professor of Medicine
 HENRY B. KIRKLAND, Clinical Assistant Professor of Medicine
 SAMUEL S. KOIDE, Assistant Professor of Medicine
 HERBERT KOTEEN, Clinical Assistant Professor of Medicine
 IRWIN H. KRAKOFF, Assistant Professor of Medicine
 HENN KUTT, Assistant Professor of Medicine
 RICHARD E. LEE, Clinical Assistant Professor of Medicine
 ROBERT D. LEEPER, Assistant Professor of Medicine
 JERROLD S. LIEBERMAN, Clinical Assistant Professor of Medicine
 MACK LIPKIN, Clinical Assistant Professor of Medicine
 DONALD B. LOURIA, Assistant Professor of Medicine
 GLENN D. LUBASH, Assistant Professor of Medicine
 NORTON M. LUGER, Clinical Assistant Professor of Medicine
 MELVILLE G. MAGIDA, Clinical Assistant Professor of Medicine
 AARON J. MARCUS, Assistant Professor of Medicine
 KLAUS MAYER, Assistant Professor of Medicine
 ABRAHAM MAZUR, Clinical Assistant Professor of Biochemistry in Medicine
 A. PARKS MCCOMBS, Clinical Assistant Professor of Medicine
 RICHARD R. MCCORMACK, Clinical Assistant Professor of Medicine
 JAMES F. MCGOVERN, Clinical Assistant Professor of Medicine
 ROBERT H. MELCHIONNA, Clinical Assistant Professor of Medicine
 DANIEL G. MILLER, Assistant Professor of Medicine
 IRWIN NYDICK, Clinical Assistant Professor of Medicine
 ARTEMIS G. PAZIANOS, Clinical Assistant Professor of Medicine
 NORMAN PLUMMER, Clinical Assistant Professor of Medicine
 J. WILLIAM POPPELL, Assistant Professor of Medicine

JEROME B. POSNER, Assistant Professor of Neurology in Medicine
 JAMES W. RALEIGH, Clinical Assistant Professor of Medicine
 DONALD J. REIS, Assistant Professor of Neurology in Medicine
 JOHN C. RIBBLE, Assistant Professor of Medicine
 JACK RICHARD, Clinical Assistant Professor of Medicine
 EDGAR A. RILEY, Clinical Assistant Professor of Medicine
 THOMAS N. ROBERTS, Clinical Assistant Professor of Medicine
 BERNARD ROGOFF, Clinical Assistant Professor of Medicine
 DAVID M. ROSEMAN, Clinical Assistant Professor of Medicine
 EMMANUEL RUDD, Clinical Assistant Professor of Medicine
 PAUL RUEGSEGG, Clinical Assistant Professor of Medicine
 RICHARD H. SAUNDERS, Jr., Assistant Professor of Medicine
 LAWRENCE SCHERR, Assistant Professor of Medicine
 ERNEST SCHWARTZ, Clinical Assistant Professor of Medicine
 ARTHUR W. SELIGMANN, Clinical Assistant Professor of Medicine
 CHARLES SHEARD, Clinical Assistant Professor of Medicine (Dermatology)
 PAUL SHERLOCK, Clinical Assistant Professor of Medicine
 MAURICE E. SHILS, Assistant Professor of Medicine
 RICHARD T. SILVER, Clinical Assistant Professor of Medicine
 LAWRENCE S. SONKIN, Clinical Assistant Professor of Medicine
 AARON D. SPIELMAN, Clinical Assistant Professor of Medicine (Allergy)
 HERBERT J. SPOOR, Clinical Assistant Professor of Medicine (Dermatology)
 NORTON SPRITZ, Assistant Professor of Medicine
 WILLARD H. SQUIRES, Clinical Assistant Professor of Medicine
 HERMAN STEINBERG, Clinical Assistant Professor of Medicine
 RICHARD W. STONE, Clinical Assistant Professor of Medicine
 JAMES C. STRICKLER, Assistant Professor of Medicine
 WILLIAM D. STUBENBORD, Clinical Assistant Professor of Medicine
 MARGUERITE P. SYKES, Assistant Professor of Medicine
 HAROLD R. WAINERDI, Clinical Assistant Professor of Medicine
 LILA A. WALLIS, Clinical Assistant Professor of Medicine
 CLINTON G. WEIMAN, Clinical Assistant Professor of Medicine
 AARON O. WELLS, Clinical Assistant Professor of Medicine
 CHARLES A. WERNER, Clinical Assistant Professor of Medicine
 A. LEE WINSTON, Clinical Assistant Professor of Medicine

Instructors:

Robert G. Brayton
 Rosalie A. Burns
 Milton Hollenberg

Anna Kara
 Robert L. Kozam
 Donald N. MacKay

Gabrielle Reem
 Richard W. Roberts
 John Kelly Smith, Jr.
 Elliot Weser

Clinical Instructors:

Henriette E. Abel
 Robert R. Abel
 Anthony A. Antoville
 Lucien I. Arditi
 Olav Austlid
 Bertrand M. Bell
 Bry Benjamin
 James S. Bernstein
 Harry Bienenstock
 Aaron W. Bortin
 Warren S. Braveman
 Samuel H. Brethwaite, Jr.
 H. Oliver Brown, Jr.
 John Lyman Brown
 Veronica C. Brown
 Bernerd H. Burbank
 Edward A. Burkhardt, Jr.
 Donald J. Cameron
 Eric J. Cassell
 Hugh E. Claremont

Melva A. Clark
 Burton D. Cohen
 C. Stephen Connolly
 Francis P. Coombs
 Josue Corcos
 Denton S. Cox
 Jean A. Cramer
 Richard A. P. Cupiaouli
 Jeff Davis
 Marion Davis
 Peter de Nesnera
 Monroe T. Diamond
 Carolyn H. Diehl
 Robert E. Eckardt
 George E. Ehrlich
 Ernest R. Esakof
 Ralph A. Eskesen
 John T. Flynn
 Claude E. Forkner, Jr.
 Francis J. Gilroy

Selig M. Ginsburg
 Robert D. Gittler
 David L. Globus
 Oscar E. Goldstein
 George W. Gorham
 Keith O. Guthrie, Jr.
 Marshall J. Hanley
 Herman G. Helpern
 Richard A. Herrmann
 Raymond B. Hochman
 Helene Holtz
 Donald W. Hoskins
 John Insolera
 Norman J. Isaacs
 Bernard Jaslowitz
 Thomas P. Jernigan
 Vincent A. Joy
 Lawrence I. Kaplan
 J. Harry Katz
 Susan Kessler

Bernard Koven
Mortimer Lacher
Martha Larson
Harold L. Leder
James W. Ledwith
Burton J. Lee III
Dorothea Lemcke
Leo R. Lese
Richard J. Leswing
Bruce C. Levy
Charles M. Lewis
Marjorie Lewisohn
John LoVerme
John F. Marchand
Mark R. Marciano
Neva Eileen McGrath

George A. McLemore
Allen W. Mead
David W. Molander
Willis A. Murphy
Luigia Norsa
Lawrence J. Parish
George E. Peabody
Francis S. Perrone
Aurelia Potor
James A. Reilly
Milton Reisch
Sanford M. Reiss
Charles Ressler
Thomas G. Rigney
Seymour N. Rinzler
Julius Rogoff

Isadore Rosenfeld
Paul Saville
Leonard Schuyler
Frank A. Seixas
Edward M. Shepard
Gerald N. Silverman
Harry A. Sinclair
Peter H. Stern
Katharine W. Swift
Thomas T. Tamlyn
Louis J. Vorhaus II
Carl Wierum
Florence A. Wilson
Edward A. Wolfson
Edward L. Worthington
Alexander W. Young, Jr.
Seymour Zucker

Research Associates:

Milton S. Davis
Eleanor E. Deschner
Borje E. V. Ejrup

Satish K. D. Mehta
Muriel L. Sackler
Robert A. Scott

Margaret E. Todd
Alice Ullmann

Research Fellows:

Arnando Antillon
Ralph Baer
Morton Blum
David C. Bontecou
Wayne E. Crill
Anthony G. DeMartino
David F. Dozier
M. Elaine Eyster
Martin Gardy
Tuviah Gilat
Helen Goddell
Joseph Grossman

Sigurdur R. Gudmundsson
Bruno Hanhart
Mary E. Hopper
Marian Isaacs
Ivan J. Kahn
John M. Kendall
Young-Shik Kim
John T. Kimball, Jr.
Roy F. Kokenge
Samuel Landau
Walter M. Lewis
Matilde Mizrahi

Ralph L. Nachman
Willibald Nagler
Maria New
Margaret Olendski
Joao Ponde
Leon J. V. Richelle
Norman Riegel
Kathleen L. Rives
Edmund O. Rothschild
Walter Rubin
William R. Shapiro
Kurt Stenzel
David Zakim

Assistants in Medicine:

Robert S. Ascheim
Clyde W. Bardin
James L. Boyer
Kent P. Bradley
Blaine A. Braniff
Robert W. Brennan
Leslie Brooks
Howard F. Bunn
Yank D. Coble, Jr.
Robert Collier
Betty S. Danes
C. Pinckney Deal, Jr.
Walter C. Degnan
Joseph Dougherty
Edwin Ettinger
Thomas Fahey
Thomas Fauble
Sidney J. Fillmore

Joseph Frascino
James Gale
James H. Gault
Martin D. Gelfand
Charles D. Gerson
Howard Goldin
Sherwood L. Gorbach
Peter C. Harpel
William R. Hazzard
Bernard A. Heckman
Carl A. Hedberg
James R. Hurley
Harold S. Isaacson
Warren Johnson, Jr.
Thomas C. Jones
Harvey G. Kemp, Jr.
Mary Jane Kreek
Garwood E. Leckband

John E. Lee
Paul R. Lenz
Robert A. MacLean
Robert S. Martin
Richard W. Miller
Susan C. Moore
George A. Omura
Raymond E. Phillips
Andrew G. Plaut
Robert C. K. Riggins
Ellen Scheiner
George G. Shashaty
Carter Smith, Jr.
Sara A. Stoesser
Charles A. Stringfellow
James C. Trombold
Richard L. Vecch
Ralph N. Wharton
William G. Winters

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
Robert L. Yaeger (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the second term of the second year under the direction of Dr. Kellner. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Luckey and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology,

dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES: Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

MEDICAL COMPREHENSIVE CARE AND TEACHING PROGRAM

The course in comprehensive medicine occupies the major attention of half the senior class during each of the two semesters of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designated as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program and is assisted by three assistant directors, two from the department of medicine together with the staff of the medical outpatient department, and one from the department of pediatrics together with the staff of the pediatric outpatient department.

MICROBIOLOGY AND IMMUNOLOGY

WILLIAM F. SCHERER, Professor of Microbiology and Immunology (*Chairman*)

JOHN Y. SUGG, Associate Professor of Microbiology and Immunology

IRVING ABRAHAMS, Assistant Professor of Microbiology and Immunology

ROY CLEELAND, Assistant Professor of Microbiology and Immunology

SIDNEY E. GROSSBERG, Assistant Professor of Microbiology and Immunology
 WILLIAM M. O'LEARY, Assistant Professor of Microbiology and Immunology
 BOB S. ROBERSON, Assistant Professor of Microbiology and Immunology

Instructor:

Robert W. Dickerman

Lecturer:

Alvin Hollander

The course is presented in the first trimester of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on the mechanisms of the different kinds of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease; special attention is given also to the immunological principles involved in the various manifestations of hypersensitiveness that occur in disease conditions of noninfectious origins.

ELECTIVE COURSES . . . Opportunities for advanced research studies in bacteriology, mycology, virology, immunology, or microbial biochemistry are provided to a limited number of students who wish to devote their elective time to studies in these subjects.

OBSTETRICS AND GYNECOLOGY

R. GORDON DOUGLAS, Professor of Obstetrics and Gynecology (*Chairman*)
 JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Obstetrics and Gynecology
 EDWARD H. DENNEN, Clinical Professor of Obstetrics and Gynecology
 RALPH W. GAUSE, Clinical Professor of Obstetrics and Gynecology
 CHARLES M. McLANE, Clinical Professor of Obstetrics and Gynecology
 JOSEPH N. NATHANSON, Clinical Professor of Obstetrics and Gynecology
 FRANK R. SMITH, Clinical Professor of Obstetrics and Gynecology

ROY W. BONSNES, Clinical Associate Professor of Biochemistry in Obstetrics and Gynecology
 E. WILLIAM DAVIS, JR., Clinical Associate Professor of Obstetrics and Gynecology
 THOMAS F. DILLON, Clinical Associate Professor of Obstetrics and Gynecology
 RANDOLPH GEPFERT, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM P. GIVEN, Clinical Associate Professor of Obstetrics and Gynecology
 OSCAR GLASSMAN, Clinical Associate Professor of Obstetrics and Gynecology
 ARTHUR V. GREILEY, Clinical Associate Professor of Obstetrics and Gynecology
 GRAHAM G. HAWKS, Clinical Associate Professor of Obstetrics and Gynecology
 DONALD G. JOHNSON, Clinical Associate Professor of Obstetrics and Gynecology
 ELMER E. KRAMER, Clinical Associate Professor of Obstetrics and Gynecology
 ROBERT LANDESMAN, Clinical Associate Professor of Obstetrics and Gynecology
 EDWARD C. MANN, Clinical Associate Professor of Obstetrics and Gynecology
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology
 NELSON B. SACKETT, Clinical Associate Professor of Obstetrics and Gynecology
 GEORGE SCHAEFFER, Clinical Associate Professor of Obstetrics and Gynecology
 WILLIAM J. SWEENEY, Clinical Associate Professor of Obstetrics and Gynecology

HUGH R. K. BARBER, Clinical Assistant Professor of Obstetrics and Gynecology
 STANLEY J. BIRNBAUM, Clinical Assistant Professor of Obstetrics and Gynecology
 ALFRED BROCKUNIER, Clinical Assistant Professor of Obstetrics and Gynecology
 MYRON I. BUCHMAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JUSTIN CALLAHAN, Clinical Assistant Professor of Obstetrics and Gynecology
 JOHN T. COLE, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT L. CRAIG, Clinical Assistant Professor of Obstetrics and Gynecology
 DAVID B. CRAWFORD, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT C. KNAPP, Clinical Assistant Professor of Obstetrics and Gynecology
 BERNARD NATHANSON, Clinical Assistant Professor of Obstetrics and Gynecology
 MELVILLE A. PLATT, Assistant Professor of Obstetrics and Gynecology
 RICHARD A. RUSKIN, Clinical Assistant Professor of Obstetrics and Gynecology
 ROBERT I. SCHRIER, Clinical Assistant Professor of Obstetrics and Gynecology
 MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Instructors:

Masao Nakamoto

H. Hudnall Ware III

Clinical Instructors:

Naef K. Basile
 Charles H. Bippart
 Perry S. Boynton, Jr.
 Jerome H. Brander
 Erskine Carmichael
 Walter Freedman
 Hugh Halsey
 James Johnson

John R. Langstadt
 Cyril Marcus
 Stewart Marcus
 Frederick W. Martens
 William D. McLarn
 Robert N. Melnick
 Myles C. Morrison
 Virginia K. Pierce

John T. Queenan
 Samuel F. Ryan
 Frederick Silverman
 Jay B. Skelton
 E. Thomas Steadman
 William D. Walden
 Virginia Werden
 Robert E. Wieche

Research Associate:

Hortense Gandy

Assistants:

Daniel Adams
 Gerald A. Anderson
 Thomas C. Carrier
 Robert Degnan
 John Dwyer

Tibor Engel
 Robert Fear
 Wilma Gladstone
 Robert Hardy
 Richard Hnat

Robert Livingston
 William O'Neill
 Abraham Risk
 Stephen Terry

The Lying-In Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6000 adult admissions to the obstetrical service and 2500 to the gynecological service each year.

SECOND YEAR

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION . . . During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical

cal anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given in groups of four students six days weekly. 4 hours. Professors Douglas, Kramer, Given, Johnson, and staff.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

THIRD YEAR

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY . . . Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Professors Douglas, McLane, Kramer, Given, Johnson, Gause, and staff. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursday, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises. Professors Dennen, Kramer, Hawks, Ruskin, Dillon, Bernard Nathanson, and staff.

COURSE III. SEMINAR . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor. Professors Given, Johnson, and staff.

COURSE IV. NEOPLASTIC DISEASES . . . Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m. Professors Douglas, Burnett (Radiology), Dillon, Davis, and staff.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Professors Kramer, Davis, Snyder, and staff. Total hours, 77 for Courses II, III, IV and V.

FOURTH YEAR

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY . . . Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on

each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged. Professor Nathanson.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS . . . A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation. Professor Douglas and staff.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m. Professor Kramer and staff.

SEMINARS . . . The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m. Professor Johnson.

ELECTIVE COURSES

PRACTICAL OBSTETRICS AND GYNECOLOGY . . . A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and in general will be designed to meet the student's qualifications.

PATHOLOGY

JOHN G. KIDD, Professor of Pathology (*Chairman*)

ROBERT C. MELLORS, Professor of Pathology

JAMES S. ARNOLD, Associate Professor of Radiopathology

AARON KELLNER, Associate Professor of Pathology

GEORGE E. MURPHY, Associate Professor of Pathology

GOETZ W. RICHTER, Associate Professor of Pathology

JOHN F. SEYBOLT, Clinical Associate Professor of Pathology

JEAN E. TODD, Clinical Associate Professor of Pathology

WILLIAM D. JOHNSON, Clinical Assistant Professor of Pathology

RICHARD P. KAROLL, Clinical Assistant Professor of Pathology

RICHARD M. TORACK, Assistant Professor of Pathology

Instructor: C. Richard Minick

Research Associates:

Peter M. Burkholder
Leslie H. Sobin

Kenneth R. Woods

Visiting Fellow: L. Whittington Gorham

Assistants:

Emilio G. Abello, Jr.
Carl G. Becker
William M. Berger

Sheila Lim
Andrew H. Littell
Minoru Okuda

B. Timothy Schaeffer
Charlotte Street
Jack F. Woodruff

Lecturers:

Arthur S. Carlson
Milton Helpert

Theodore Robertson

GENERAL PATHOLOGY

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION . . . Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY . . . Required in the first and second terms of the second year.

Professor Kidd and staff. 264 hours.

NEUROPATHOLOGY . . . The pathology of the nervous system is studied, and altered structure and function are correlated.

Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES . . . These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES . . . A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

WALLACE W. McCRORY, Professor of Pediatrics (*Chairman*)

HEINZ F. EICHENWALD, Professor of Pediatrics

CARL H. SMITH, Clinical Professor of Pediatrics

LEONA BAUMGARTNER, Clinical Associate Professor of Pediatrics

SAMUEL R. BERENBERG, Clinical Associate Professor of Pediatrics

MARGARET DANN, Associate Professor of Pediatrics

PAUL F. DE GARA, Clinical Associate Professor of Pediatrics (Allergy)

MARY ALLEN ENGLE, Associate Professor of Pediatrics

NATHAN EPSTEIN, Clinical Associate Professor of Pediatrics

MARION E. ERLANDSON, Associate Professor of Pediatrics

JOHN E. FRANKLIN, Clinical Associate Professor of Pediatrics

JAMES L. GERMAN III, Associate Professor of Pediatrics

HENRY P. GOLDBERG, Clinical Associate Professor of Pediatrics

EDMUND N. JOYNER III, Clinical Associate Professor of Pediatrics

HEDWIG KOENIG, Clinical Associate Professor of Pediatrics

MILTON I. LEVINE, Clinical Associate Professor of Pediatrics

M. LOIS MURPHY, Associate Professor of Pediatrics

MAXWELL STILLERMAN, Clinical Associate Professor of Pediatrics

AUGUST G. SWANSON, Associate Professor of Neurology in Pediatrics

WILLIAM G. THURMAN, Associate Professor of Pediatrics

MARJORIE A. WHEATLEY, Clinical Associate Professor of Pediatrics

HOWARD G. WORTHEN, Associate Professor of Pediatrics

BARBARA S. ASHE, Assistant Professor of Pediatrics

PETER A. McF. AULD, Assistant Professor of Pediatrics

RICHARD R. BASS, Clinical Assistant Professor of Pediatrics

CHARLES H. BAUER, Clinical Assistant Professor of Pediatrics

OTTO E. BILLO, Clinical Assistant Professor of Pediatrics

SAMUEL W. DOOLEY, Assistant Professor of Pediatrics

MARVIN J. GERSH, Clinical Assistant Professor of Pediatrics

MARTIN J. GLYNN, Clinical Assistant Professor of Pediatrics

JULIUS GOLUBOW, Assistant Professor of Biochemistry in Pediatrics

JAMES Q. HARALAMBIE, Clinical Assistant Professor of Pediatrics

FREDERICK C. HUNT, Clinical Assistant Professor of Pediatrics

MARGARET M. KUGLER, Clinical Assistant Professor of Pediatrics

WAN NGO LIM, Assistant Professor of Pediatrics

FLORENCE N. MARSHALL, Clinical Assistant Professor of Pediatrics

ARMOND V. MASCIA, Clinical Assistant Professor of Pediatrics

ROBERT G. McGOVERN, Clinical Assistant Professor of Pediatrics

MARION McILVEEN, Clinical Assistant Professor of Pediatrics

VIRGINIA C. MITTY, Clinical Assistant Professor of Pediatrics

JOAN E. MORGENTHAU, Clinical Assistant Professor of Pediatrics
 MARIA I. NEW, Assistant Professor of Pediatrics
 MADOKA SHIBUYA, Clinical Assistant Professor of Pediatrics
 HENRY R. SHINEFIELD, Assistant Professor of Pediatrics
 MARTHA L. SMITH, Clinical Assistant Professor of Pediatrics
 GERTRUDE S. STERN, Assistant Professor of Pediatrics
 CHARLOTTE T. C. TAN, Assistant Professor of Pediatrics
 LOUIS E. WEYMULLER, Clinical Assistant Professor of Pediatrics
 STANLEY S. ZIPSER, Clinical Assistant Professor of Pediatrics

Instructors:

Margaret W. Hilgartner	Robert E. Sharkey
Margaret S. Lyman	Norman M. Zetterstrand
Melvin S. Rosh	

Clinical Instructors:

Mary C. Buchanan	Margaret T. Grossi	Virginia E. Pomeranz
Walter T. Carpenter	Tomiko Ito	Howard Schreiber
Leon I. Charash	Barry M. Josephson	Beatrice S. Slater
Ruth Cudmore	Carl P. Kremer	David I. Smith
Alan P. De Mayo	Lenore S. Levine	Peter S. Tolins
Joseph H. Di Leo	Rebecca F. Notterman	Jerome M. Torsney
Diane B. Gareen	Olive E. Pitkin	Alvah M. Weiss

Research Associates:

Katharine Cobb	Helen McNamara	Edward T. Schubert
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Research Fellows:

James S. Alexander	Abby J. Greenberg	Saroj Mehta
Renee M. Brilliant	Judith L. Jabloner	Jean-Guy Mongeau
Kathryn H. Ehlers	Melville G. Magida	Hart deCoudres Peterson
Harry R. Foster, Jr.	James McKenna	

Assistants:

Joan M. Arboit	Philip W. H. Eskes	Frank N. Medici
Renee D. Baccay	David R. Fleisher	William J. Peter
Jennifer J. Bell	Donald C. McLean	Frances F. Stuart
		Alan A. Wanderer

THIRD YEAR . . . A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children and principles of nutrition with application to infant feeding, with patients illustrating the peculiarities of disease in early life. Students serve as clinical clerks in pediatrics for a period of five and one-half weeks on the pavilions of the New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and week ends. The work of the clinical clerkship includes attendance at cardiac clinics and at departmental conferences. Special rounds and seminars are arranged for the benefit of the clerks. Instruction in contagious disease is given at the New York Hospital. Total hours, 205.

FOURTH YEAR . . . The clinical lectures are continued through part of the fourth year and are closely integrated with the fourth year lectures in internal medicine. Many of the students' activities are a part of the Comprehensive Care and Teaching Program. Students are assigned to the outpatient department in the mornings, where they are given supervised responsibility for the management of ambulatory pediatric patients. They take histories, make physical

examinations, and prescribe treatment. A daily therapeutic conference supplements the clinical work. A series of seminars is held under the supervision of senior staff members. Emphasis is placed on the psychological aspects of pediatrics and the measures which can be taken to promote proper growth and development. Both in the General Pediatric Clinics and the Well Baby Clinics students are given the opportunity for longitudinal follow-up of individual patients so as to become familiar with normal growth and development of infants and children and the natural history of disease processes. Total hours, 86.

ELECTIVE COURSES

SECOND YEAR . . . Elective courses are offered to second year students in the third trimester. Participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR . . . Elective courses are offered in clinical and research activities during the entire academic year. Full time or part time programs in the outpatient department or participation in a number of research activities under the supervision of members of the pediatric department can be arranged individually. A two month substitute internship on the pediatric medical in-patient service is also available.

PHARMACOLOGY

WALTER F. RIKER, JR., Professor of Pharmacology (*Chairman*)
HARRY GOLD, Clinical Professor of Pharmacology

WALTER MODELL, Associate Professor of Pharmacology
JAY ROBERTS, Associate Professor of Pharmacology

ALBERT S. KUPERMAN, Assistant Professor of Pharmacology
FRANK G. STANDAERT, Assistant Professor of Pharmacology

Instructor:

Amir Askari

Research Fellows:

Stewart J. Ehrreich
Robert D. Roe

Alan Van Poznak

Lecturer:

Melvin S. Schwartz

SECOND YEAR . . . Laboratory work, demonstrations, seminars, and lectures are given during the first term of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology without particular reference to a systematic consideration of drugs or their applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 121 hours.

During the second trimester of the second year, the course in pharmacology is continued with two weekly lectures. In this phase of instruction systematic

consideration is given to the pharmacologic properties of the more important drugs in current use. Therapeutic applications are not considered except where they uniquely illustrate pharmacologic characteristics. 22 hours.

FOURTH YEAR . . . Weekly seminars are held by the Pharmacology Department during the course in Comprehensive Medicine. The aim of these seminars is to review the pharmacologic properties of selected drugs and from this to ascertain the utility and limitations of these drugs in given clinical situations. Topics for discussion are determined chiefly by student choice. 11 hours.

ELECTIVE COURSES

SECOND YEAR . . . An elective course is offered in the third trimester of the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced in the basic course, or to clarify, through research, some particular aspect of drug action. Scheduled seminars serve as a means for presentation and critical discussion of studies in progress. These activities are supervised closely by staff members and oriented as a graduate course. Consequently, registration is limited. 220 hours.

FOURTH YEAR . . . Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, autonomic nervous system and the cardiovascular system.

Research in clinical pharmacology permits individuals to participate in drug evaluations with emphasis on the design of methods and experiments. Of particular interest is the measurement of subjective response in man.

BIostatistical SEMINAR . . . Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

ROBERT F. PITTS, Professor of Physiology (*Chairman*)

GERHARD H. GIEBISCH, Associate Professor of Physiology

ROGER L. GREIF, Associate Professor of Physiology

D. ROBERT AXELROD, Clinical Assistant Professor of Physiology

COLIN FELL, Assistant Professor of Physiology

HAROLD G. HEMPLING, Assistant Professor of Physiology

RICHARD H. KESSLER, Clinical Assistant Professor of Physiology

SHERMAN KUPFER, Clinical Assistant Professor of Physiology

ERICH E. WINDHAGER, Assistant Professor of Physiology

Research Fellows:

Gustave Denis

Harry Preuss

Lou Ann Pilkington

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM . . . Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM . . . Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry, and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES . . . A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

COURSES OPEN TO SPECIAL STUDENTS

1. *PHYSIOLOGY*. Fee, \$100 for each term.
2. *PHYSIOLOGICAL RESEARCH*. Subject to special arrangement with head of the department.

PSYCHIATRY

WILLIAM T. LHAMON, Professor of Psychiatry (*Chairman*)
 FRANCIS J. HAMILTON, Clinical Professor of Psychiatry
 ALEXANDER H. LEIGHTON, Professor of Psychiatry (Social Psychiatry)
 MARVIN STEIN, Professor of Psychiatry
 JAMES H. WALL, Clinical Professor of Psychiatry

FREDERIC F. FLACH, Clinical Associate Professor of Psychiatry
 LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine in Psychiatry
 RICHARD N. KOHL, Associate Professor of Psychiatry
 DOROTHEA C. LEIGHTON, Clinical Associate Professor of Psychiatry (Social Psychiatry)
 LEON L. RACKOW, Clinical Associate Professor of Psychiatry
 PETER E. STOKES, Clinical Associate Professor of Medicine in Psychiatry
 LIVINGSTON WELCH, Clinical Associate Professor of Psychology in Psychiatry

HELEN E. DANIELLS, Clinical Assistant Professor of Psychiatry
 LAWRENCE J. HATTERER, Clinical Assistant Professor of Psychiatry
 SEYMOUR G. KLEBANOFF, Clinical Assistant Professor of Psychology in Psychiatry
 CHARLES A. KNEHR, Clinical Assistant Professor of Psychology in Psychiatry
 THOMAS S. LANGNER, Clinical Assistant Professor of Sociology in Psychiatry (Social Psychiatry)

ALFRED B. LEWIS, JR., Assistant Professor of Psychiatry
 JAMES F. MASTERSON, JR., Clinical Assistant Professor of Psychiatry
 ROBERT S. McCULLY, Assistant Professor of Psychology in Psychiatry
 JANE M. MURPHY, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)
 CURTIS T. PROUT, Clinical Assistant Professor of Psychiatry
 FRED V. ROCKWELL, Clinical Assistant Professor of Psychiatry
 RAUL SCHIAVI, Assistant Professor of Psychiatry
 ALBERT C. SHERWIN, Clinical Assistant Professor of Psychiatry
 JOSEPH D. SULLIVAN, Clinical Assistant Professor of Psychiatry
 WILLIAM H. WAINWRIGHT, Assistant Professor of Psychiatry
 NATHANIEL WARNER, Clinical Assistant Professor of Psychiatry

Instructors:

Edward Y. Liang	Helen N. Siegrist
Thomas J. Luparello	Aiden E. Whitney
Vernon Sharp III	

Clinical Instructors:

Edward T. Adelson	Thomas L. Doyle, Jr.	M. Dorothea Kerr
Arthur A. Anderson, Jr.	Samuel V. Dunkell	Murray I. Kofkin
Stuart Ashman	G. Renee Ferguson	Allison B. Landolt
Ralph D. Baker	Theodore H. Finkle	Ludwig G. Laufer
James E. Baxter	M. Freile Fleetwood	William V. Lulow
A. Louise Brush	Gerard Fountain	Rene C. Mastrovito
Robert S. Carson	John A. Frank	Lillian E. McGowan
Charles I. Celian	Myron L. Glucksman	John F. McGrath
Remo R. Cerulli	Stephen Goodyear	William K. McKnight
John H. Chilman	Philip S. Herbert, Jr.	Alan A. McLean
Howard N. Cooper	Peter T. Janulis	Wayne A. Myers
Eleanor Crissey	Francis D. Kane	Maurice Pachter
Lois B. de Alvarado	Marilyn G. Karmason	Jacques M. Quen

Edwin Ranzenhofer
Martha K. Reese
Marjorie Rittwagen
Philip S. Robbins
George Samios
Shirley Schaffer
Marie-Louise Schoelly

Anne M. Shuttleworth
Herbert E. Spohn
Leonard R. Straub
Nathan Thal
Sylvia G. Traube
Kenneth F. Tucker
Traer Van Allen

Morton L. Wadsworth
Harry G. Wallenstein
Henriette L. Wayne
Louis Weinstein
Peter G. Wilson

Research Associates:

Roderick A. Armstrong
Albert N. Browne-Mayers
John S. Harding

Laurel Hodgden
Sam Korn

Alice L. Longaker
Stanley T. Michael

Assistants:

Gene M. Abroms
A. Anthony Arce
Joseph Arcuri
Marvin B. Blitz
Marc M. Branchey

James W. Brown
Robert Daly
Daniel J. O'Connell
Anna M. Remler
Marilyn R. Scheuing

James H. Spencer
Michael S. Stockheim
Neil Taylor

Research Assistants:

Arline Bronzaft
Roslyn Hayes

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: PERSONALITY DEVELOPMENT . . . Acquaints the student with the development and methods of study of the normal personality. Lectures and seminars are utilized in presenting a dynamic orientation to the formation of personality from infancy through senescence. The significance of interpersonal relations is stressed, with particular emphasis on the patient-physician relationship. Psychological, physiological, and sociological factors are considered. Total hours, 22.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION . . . The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY . . . Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a

way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY . . . In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK . . . Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

WALSH McDERMOTT, Livingston Farrand Professor of Public Health (*Chairman*)

LEONA BAUMGARTNER, Clinical Professor of Public Health

JOHN R. HELLER, Clinical Professor of Public Health

WILLIAM T. INGRAM, Visiting Professor of Engineering in Public Health

EDWIN D. KILBOURNE, Professor of Public Health

JAMES R. McCARROLL, Associate Professor of Public Health

SAMUEL R. BERENBERG, Clinical Assistant Professor of Public Health

AARON D. CHAVES, Clinical Assistant Professor of Public Health

FLOYD M. FELDMANN, Assistant Professor of Public Health

AUGUST H. GROESCHEL, Assistant Professor of Public Health

RENE JAHIEL, Assistant Professor of Public Health

B. H. KEAN, Clinical Assistant Professor of Parasitology in Public Health

ANN P. KENT, Clinical Assistant Professor of Public Health

ROBERT M. McCUNE, Assistant Professor of Public Health

PHILIP OLLSTEIN, Clinical Assistant Professor of Public Health

JEROME L. SCHULMAN, Assistant Professor of Public Health

MELVIN S. SCHWARTZ, Assistant Professor of Biometrics in Public Health

Instructors:

Clifford R. Barnett

K. Marilyn Smart

Clinical Instructors:

Eric J. Cassell

Donald W. Hoskins

Gladys L. Hobby

William Loery

Research Associates:

Julia M. Weld

Irvin W. Gibby

Research Fellow:

Gerard Wijsmuller

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other labora-

stories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

MEDICAL PARASITOLOGY . . . Intended to supplement and extend the required work in this field. Diagnosis, life histories of parasites and their vectors, and control measures are considered with special reference to tropical medicine.

Given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is Consultant in Tropical Diseases to the New York Hospital and has had extensive field experience in the tropics. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Particular emphasis is placed on the clinical aspects of the various diseases that may be produced by the parasites. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Thursday afternoon during the second trimester of the second year, a lecture or demonstration is presented from 2 to 3 p.m., and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33.

SECOND YEAR: EPIDEMIOLOGY . . . During the second trimester of the year an introduction to epidemiology is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR . . . The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of 7 to 14 students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR . . . The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of 5 seminars are held during each one half year. Total hours, 14.

ELECTIVE COURSES

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other labora-

tories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

MEDICAL PARASITOLOGY . . . Intended to supplement and extend the required work in this field. Diagnosis, life histories of parasites and their vectors, and control measures are considered with special reference to tropical medicine.

RADIOLOGY

JOHN A. EVANS, Professor of Radiology (*Chairman*)

JAMES J. NICKSON, Professor of Radiology

ROBERT S. SHERMAN, Clinical Professor of Radiology

HAROLD L. TEMPLE, Clinical Professor of Radiology

DAVID V. BECKER, Associate Professor of Radiology

HARRY W. BURNETT, Associate Professor of Radiology

GUIDO CURRARINO, Associate Professor of Radiology

ROBERT H. FREIBERGER, Clinical Associate Professor of Radiology

ULRICH K. HENSCKE, Clinical Associate Professor of Radiology

RALPH F. PHILLIPS, Clinical Associate Professor of Radiology

ISRAEL STEINBERG, Clinical Associate Professor of Radiology

THANE ASCH, Assistant Professor of Radiology

ARNOLD BERRETT, Clinical Assistant Professor of Radiology

EUGENE BRONSTEIN, Clinical Assistant Professor of Radiology

FLORENCE CHIEN HWA-CHU, Clinical Assistant Professor of Radiology

KUO YORK CHYNN, Assistant Professor of Radiology

F. MITCHELL CUMMINS, Clinical Assistant Professor of Radiology

ELEANOR DESCHNER, Assistant Professor of Radiology (Radiobiology)

ELIZABETH FOCHT, Assistant Professor of Radiology (Physics)

EUGENE FURTH, Assistant Professor of Radiology

MORDECAI HALPERN, Assistant Professor of Radiology

GEORGE JASPIN, Clinical Assistant Professor of Radiology

MARVIN LORING, Assistant Professor of Radiology

ZUHEIR MUJAHED, Assistant Professor of Radiology

NATHAN POKER, Assistant Professor of Radiology

SAMUEL SEAL, Clinical Assistant Professor of Radiology

HENRY SELBY, Clinical Assistant Professor of Radiology

STEPHEN WHITE, Clinical Assistant Professor of Radiology

Instructors:

Paul Killoran

Theodore Robinson

Harry Stein

Robin C. Watson

Clinical Instructors:

Arnold Bajek

H. Omar Hustu

David G. Ostrolenk

Rubem Pochaczewsky

Milton Raben

Assistants:

Robert Bernstein

Edward Danielski

Wellum Frivold

James Glenn

Thomas March

Fred Sondheimer

Gary Swanson

Herbert Toch

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical

departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately thirty hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

ELECTIVES: FOURTH YEAR

(1) *X-RAY CLINICAL CLERKSHIP* . . . A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) *TECHNIQUE OF FLUOROSCOPY* . . . Two hours. Limited to six students. Arrangements to be made through the department head.

(3) *GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION* . . . One month. Limited to six students at any one time.

SURGERY

FRANK GLENN, Lewis Atterbury Stimson Professor of Surgery (*Chairman*)

JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Surgery

GORAN C. H. BAUER, Professor of Surgery (Orthopedics)

HERBERT CONWAY, Clinical Professor of Surgery (Plastic Surgery)

CRANSTON W. HOLMAN, Clinical Professor of Surgery

VICTOR F. MARSHALL, Clinical Professor of Surgery (Urology)

JOHN M. McLEAN, Clinical Professor of Surgery (Ophthalmology)

JAMES A. MOORE, Clinical Professor of Surgery (Otolaryngology)

S. W. MOORE, Clinical Professor of Surgery

ROBERT L. PATTERSON, JR., Professor of Surgery (Orthopedics)

BRONSON S. RAY, Clinical Professor of Surgery (Neurosurgery)

- LEE R. STRAUB, Clinical Professor of Surgery (Orthopedics)
 T. CAMPBELL THOMPSON, Clinical Professor of Surgery (Orthopedics)
 PRESTON A. WADE, Clinical Professor of Surgery
- WILLIAM A. BARNES, Clinical Associate Professor of Surgery
 JOHN M. BEAL, Clinical Associate Professor of Surgery
 CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology in Surgery (Orthopedics)
 EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery
 JOHN R. COBB, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM COOPER, Clinical Associate Professor of Surgery (Orthopedics)
 WILLIAM A. COOPER, Clinical Associate Professor of Surgery
 PETER DINEEN, Clinical Associate Professor of Surgery
 JOHN W. DRAPER, Clinical Associate Professor of Surgery (Urology)
 HOWARD S. DUNBAR, Clinical Associate Professor of Surgery (Neurosurgery)
 EDWARD A. DUNLAP, Clinical Associate Professor of Surgery (Ophthalmology)
 JOHN H. ECKEL, Clinical Associate Professor of Surgery
 GEORGE F. EGAN, Clinical Associate Professor of Surgery (Dentistry)
 HELENA GILDER, Associate Professor of Surgery (Biochemistry)
 DAN M. GORDON, Clinical Associate Professor of Surgery (Ophthalmology)
 GEORGE R. HOLSWADE, Clinical Associate Professor of Surgery
 RICHARD C. KARL, Associate Professor of Surgery
 LEONHARD KORNGOLD, Associate Professor of Microbiology in Surgery (Orthopedics)
 ERNEST W. LAMPE, Clinical Associate Professor of Surgery
 FREDERICK L. LIEBOLT, Clinical Associate Professor of Surgery (Orthopedics)
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Surgery
 WILLIAM F. NICKEL, Jr., Clinical Associate Professor of Surgery
 HERBERT PARSONS, Clinical Associate Professor of Surgery (Neurosurgery)
 S. FRANK REDO, Clinical Associate Professor of Surgery
 PETER-CYRUS RIZZO, Clinical Associate Professor of Surgery (Orthopedics)
 BJORN THORBJARNARSON, Clinical Associate Professor of Surgery
 JEAN E. TODD, Clinical Associate Professor of Pathology in Surgery
 GEORGE F. WANTZ, Clinical Associate Professor of Surgery
 JOHN P. WEST, Clinical Associate Professor of Surgery
 WILLET F. WHITMORE, Jr., Clinical Associate Professor of Surgery (Urology)
 PHILIP D. WILSON, Jr., Clinical Associate Professor of Surgery (Orthopedics)
- IRVING BARAS, Clinical Assistant Professor of Surgery (Ophthalmology)
 STANLEY J. BEHRMAN, Clinical Assistant Professor of Surgery (Dentistry)
 ANNE BELCHER, Clinical Assistant Professor of Surgery (Otolaryngology)
 FRANCIS A. BENEVENTI, Clinical Assistant Professor of Surgery (Urology)
 PAUL W. BRAUNSTEIN, Clinical Assistant Professor of Surgery
 FELIX BRONNER, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 ROLLA D. CAMPBELL, Jr., Clinical Assistant Professor of Surgery (Orthopedics)
 GEORGE N. CORNELL, Clinical Assistant Professor of Surgery
 J. EDWIN DREW, Clinical Assistant Professor of Surgery (Urology)
 SIDNEY N. EICHENHOLTZ, Clinical Assistant Professor of Surgery (Orthopedics)
 HOLLON W. FARR, Clinical Assistant Professor of Surgery
 MILES A. GALIN, Assistant Professor of Surgery (Ophthalmology)
 HAROLD GENVERT, Clinical Assistant Professor of Surgery
 EDWARD I. GOLDSMITH, Clinical Assistant Professor of Surgery
 DICRAN GOULIAN, Jr., Clinical Assistant Professor of Surgery (Plastic Surgery)
 ALEXANDER HERSH, Clinical Assistant Professor of Surgery (Orthopedics)
 JAMES M. HOLMAN, Clinical Assistant Professor of Surgery (Otolaryngology)
 GUSTAVUS A. HUMPHREYS, Clinical Assistant Professor of Surgery (Urology)
 VANSEL S. JOHNSON, Clinical Assistant Professor of Surgery
 JOSEPH T. KAUER, Clinical Assistant Professor of Surgery
 EDWARD B. C. KEEFER, Clinical Assistant Professor of Surgery
 HARVEY A. LINCOFF, Clinical Assistant Professor of Surgery (Ophthalmology)
 HENRY MANNIX, Jr., Clinical Assistant Professor of Surgery
 VICTOR MAYER, Clinical Assistant Professor of Surgery (Orthopedics)
 JOHN H. MCGOVERN, Clinical Assistant Professor of Surgery (Urology)
 FREDERICK C. McLELLAN, Clinical Assistant Professor of Surgery (Urology)
 LAURENCE MISCALL, Clinical Assistant Professor of Surgery

GEORGE C. MUELLER, Clinical Assistant Professor of Surgery (Otolaryngology)
 JAMES A. NICHOLAS, Clinical Assistant Professor of Surgery (Orthopedics)
 RUSSEL H. PATTERSON, Jr., Assistant Professor of Surgery (Neurosurgery)
 ERIC C. RICHARDSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 JOHN G. SCHMIDT, Clinical Assistant Professor of Surgery
 ROBERT I. SCHRIER, Clinical Assistant Professor of Anesthesiology in Surgery
 DONALD M. SHAFFER, Clinical Assistant Professor of Surgery (Ophthalmology)
 PAUL A. SKUDDER, Clinical Assistant Professor of Surgery
 JAMES W. SMITH, Clinical Assistant Professor of Surgery (Plastic Surgery)
 STUART S. SNYDER, Clinical Assistant Professor of Surgery (Ophthalmology)
 MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Surgery
 ALAN VAN POZNAN, Clinical Assistant Professor of Anesthesiology in Surgery

Instructors:

Leon I. Block	Richard P. Karoll	Walter F. Pizzi
C. Elton Cahow, Jr.	Donaldson W. Kingsley, Jr.	James W. Preuss
Edward J. Carey, Jr.	Eugene M. Lance	George D. Rovere
John T. Flynn	David B. Levine	George P. Santos
Charles F. Frey	Charles K. McSherry	Roger Telmosse
Dudley M. Golkin	Arthur J. Okinaka	Philip A. Zetterstrand
Kamal T. Hemady	Ahmad Orandi	

Clinical Instructors:

Ahmad Akbari	William C. Frederick	Juan Negrin
Jacob Applebaum	Milton Gabel	William J. Nelson
William D. Arnold	Russell O. Gee	John B. Ogilvie
Samuel Avnet	J. Theodore Geiger	Patricia M. O'Neil
Howard D. Balensweig	William D. Graham	Earl A. O'Neill
Leonard Biel, Jr.	Charles K. Hamilton	Walter L. Peretz
Mitchell Brice II	Bruce R. Heinzen	Thomas D. Rizzo
Michael Browne	I. David Horwich	Robert W. Schick
Anthony Camarda	Suzanne A. L. Howe	Jerold Schwartz
Thomas I. Carey	Ann Huston	Michael Sierp
Robert L. Clarke	Bernard Jacobs	Martin Spatz
Edward C. Coats	William F. Kearney, Jr.	David S. Speer
Elizabeth F. Constantine	John G. Keuhnelian	John F. Struve
Rudolph C. Dangelmajer	Russell W. Lavengood, Jr.	Irvin S. Taylor
Robert D. Deans	Jerome Lawrence	Francis M. Tiers
John H. Doherty	Alfred E. Mamelok	Philip H. Voorhees
Wade Duley	Peter J. Marchisello	Joseph N. Ward
Charles R. Dunbar	Mary H. Markham	Jerome R. Weinroth
Herbert L. Erlanger	Joseph B. Mason	Roy C. Wiggins
Francis J. Fadden	Gerald J. Millstein	John R. Williams
Edgar P. Fleischmann	George R. Monahan	Robert B. Zufall

Research Associates:

Ronald W. Gillette	Peter M. Guida	Allan E. Inglis
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Research Fellow:

Norman E. Hugo

Assistants:

Donald W. Abel	Gerald T. Cook	Alexander W. Gotta
James W. Asaph	Mary E. Cooney	Joseph W. Gray
John V. Banta	Armand F. Cortese	George D. Griffin
Richard A. Baragry	Arnold G. Diethelm	Randolph H. Guthrie, Jr.
Bryant Barnard	Roger R. Ecker	Edward McG. Hedgpeth, Jr.
Arthur R. Beil, Jr.	Manuel Fernandes	Julian T. Hoff
Richard M. Bergland	John T. Fisher	Vincent M. Hogan
Julius Conn, Jr.	Eugene S. Flamm	Aileen Kass
Michael M. Conroy	Thomas M. Fulcher	Luke M. Kitahata

Warren W. Koontz, Jr.
 Ralph J. Lewis
 Melvin G. Lund
 J. Ralph Macfarlane
 William P. McCann
 J. Bruce McGovern
 Richard G. Middleton
 Joseph Moccia
 Parvaneh Modaber
 Edward C. Muecke
 Robert J. Neviasser
 Hugh P. O'Shaughnessy

Benjamin S. Park, Jr.
 Alan Pavel
 John M. Pitman, Jr.
 J. Richard Rees
 Christos Romas
 Nicholas A. Romas
 George P. Rowan
 Isam A. Sakati
 Real Sasseville
 Robert P. Sengelmann
 John H. Seward
 Robert S. Siegel

William T. Stuenkel
 Colleen A. Sullivan
 David G. Susman
 Kenneth G. Swan
 Krystyna Szmurlo
 T. Miriam Tani
 Theodore E. Trebowski
 H. Kirk Watson
 Dean H. Weaver
 William A. White
 F. Darwin Zahn
 Philip H. Zweifach

MEMORIAL HOSPITAL

HENRY T. RANDALL, Professor of Surgery
 ALEXANDER BRUNSCHWIG, Clinical Professor of Surgery

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery
 MICHAEL R. DEDDISH, Clinical Associate Professor of Surgery
 JOSEPH H. FARROW, Clinical Associate Professor of Surgery
 EDGAR L. FRAZELL, Clinical Associate Professor of Surgery
 WILLIAM S. HOWLAND, Associate Professor of Anesthesiology in Surgery
 WALTER LAWRENCE, Jr., Clinical Associate Professor of Surgery
 GORDON McNEER, Clinical Associate Professor of Surgery
 GEORGE T. PACK, Clinical Associate Professor of Surgery
 WILLIAM L. WATSON, Clinical Associate Professor of Surgery
 WILLET F. WHITMORE, Jr., Clinical Associate Professor of Surgery (Urology)

ROBERT J. BOOHER, Clinical Assistant Professor of Surgery
 C. PAUL BOYAN, Assistant Professor of Anesthesiology in Surgery
 WILLIAM G. CAHAN, Clinical Assistant Professor of Surgery
 DANIEL CATLIN, Clinical Assistant Professor of Surgery
 HOLLON W. FARR, Clinical Assistant Professor of Surgery
 JOSEPH G. FORTNER, Clinical Assistant Professor of Surgery
 HARRY GRABSTALD, Clinical Assistant Professor of Surgery (Urology)
 NORMAN I. HIGINBOTHAM, Clinical Assistant Professor of Surgery
 ARTHUR I. HOLLEB, Clinical Assistant Professor of Surgery
 LUCILE LOSEKE, Clinical Assistant Professor of Surgery
 THEODORE R. MILLER, Clinical Assistant Professor of Surgery
 JOHN L. POOL, Clinical Assistant Professor of Surgery
 GUY ROBBINS, Clinical Assistant Professor of Surgery
 OLGA SCHWEIZER, Assistant Professor of Anesthesiology in Surgery
 REUVEN K. SNYDERMAN, Clinical Assistant Professor of Surgery
 MAUS STEARNS, Jr., Clinical Assistant Professor of Surgery
 JEROME A. URBAN, Clinical Assistant Professor of Surgery

Instructors:

Anita H. Goulet	Terence W. Murphy
Rita G. Jacobs	Beatrice Selvin
Ann H. Miller	Patricia S. Underwood

Clinical Instructors:

Lemuel Bowden	Frank P. Gerold	Ralph C. Marcove
Richard D. Brasfield	John T. Goodner	Charles J. McPeak
Paul Clapp	Charles C. Harrold, Jr.	Oliver S. Moore
Donald G. C. Clark	Ralph E. L. Hertz	Elisabeth P. Pickett
James C. DiLorenzo	John S. Lewis	Stuart Quan
Alfred A. Fracchia	John C. Lucas, Jr.	H. Randall Tollefsen
Kenneth C. Francis	A. Ranald Mackenzie	Horace W. Whiteley, Jr.

Assistants:

Myron Arlen	Paul H. O'Brien
Edward W. Browne, Jr.	Roy C. Page
Irvin D. Fleming	Stuart S. Roberts
Walter R. Lofmark	Ronald H. Spiro
Eugene F. McDonough, Jr.	Merrill L. Wilson

GENERAL SURGERY

SECOND YEAR . . . Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR . . . In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with

what surgical operations entail and to emphasize the fundamental principles of anesthesia, sepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR . . . In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the depart-

ment. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

ELECTIVE COURSES

ANESTHESIOLOGY . . . Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY . . . Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY . . . Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP . . . Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY . . . Maximum of four students. Eight weeks' course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY . . . An opportunity is available for one student each period to participate in laboratory and clinical use of the extracorporeal pump-oxygenator.

ORTHOPEDIC SURGERY . . . Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY . . . Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

Immunology. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

Virology. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

Biochemistry. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

Physiological chemistry. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

ALL STUDENTS not registered in Cornell University Graduate School and not registered for the M.D. degree are SPECIAL STUDENTS.

Such students are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEEES

Matriculation Fee	\$10
Administration Fee	\$ 5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD			352	325	
Lectures			33		787
MEDICAL COMPREHENSIVE CARE †				300	300
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	86	
Lectures			33		
Contagious Disease			18		291
PSYCHIATRY:					
Personality Development	22				
Psychiatry		33	33	66	
Lectures				33	187
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVE HOURS		165		285	450
TOTALS	1056	1123	1250	1710	5150

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 300 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE
1963-1964

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Developmental Anatomy and Genetics	Developmental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy
10-11		Gross Anatomy	Microscopic Anatomy			
11-12						
12-1						
1-2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Developmental Anatomy and Genetics	Gross Anatomy		Psychiatry	Developmental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10–11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11–12						
12–1						
1–2	Biochemistry		Free	Biochemistry	Biochemistry	
2–3	Gross Anatomy	Gross Anatomy		Psychiatry	Gross Anatomy	
3–4						
4–5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology	
10-11						Radio-biology *	
11-12							
12-1							
1-2							
2-3	Biochemistry	Physiology	Free	Physiology	Physiology		
3-4					Free		
4-5							

* Multidepartmental course.

SECOND YEAR SCHEDULE 1963-1964

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Pharmacology	Pathology	Pharmacology	Pathology	Pharmacology	Pharmacology
10–11			Microbiology			Microbiology
11–12						
12–1						
1–2						
2–3	Microbiology	Microbiology	Free	Microbiology	Microbiology	
3–4		Pharmacology				
4–5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pb. Hl.†
10-11						
11-12			Pharmacology			
12-1						
1-2						
2-3	Pb. Hl.	Clinical Pathology	Free	Parasitology	Pharmacology	
3-4	Clinical Pathology				Clinical Pathology	
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neurology (9:00-12:00) Group A Elective Groups B, C, D	Neurology (9:00-12:00) Group B Elective Groups A, C, D	Neurology (9:00-12:00) Group C Elective Groups A, B, D	Neurology (9:00-12:00) Group D Elective Groups A, B, C	Psychiatry	Elective
10-11						
11-12						
12-1					Neurology Lecture	
1-2						
2-3	Physical Diagnosis *	Physical Diagnosis *	Physical Diagnosis *	Elective	Physical Diagnosis *	
3-4						
4-5						

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† For four weeks only, beginning after Christmas recess.

THIRD YEAR SCHEDULE 1963-1964

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS) PEDIATRICS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3	Pediatrics	Pediatrics	Free	Pediatrics		
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS) OBSTETRICS AND GYNECOLOGY, PSYCHIATRY, PUBLIC HEALTH, CONTAGIOUS DISEASES

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3		Psychiatry	Free	Psychiatry	Pb. Hl.	
3-4						
4-5	C.P.C.					

FOURTH YEAR SCHEDULE
TWO SEMESTERS, 22½ WEEKS EACH; SIX DIVISIONS
JUNE 17 to MAY 22

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-1	<i>1st Semester</i> Section I Medical Comprehensive Care Section II D Elec. (1); Ob.-Gyn. (2); Surg. (3). E Surg. (1); Elec. (2); Ob.-Gyn. (3). F Ob.-Gyn. (1); Surg. (2); Elec. (3).			<i>2nd Semester</i> { A Elec. (1); Ob.-Gyn. (2); Surg. (3). B Surg. (1); Elec. (2); Ob.-Gyn. (3). C Ob.-Gyn. (1); Surg. (2); Elec. (3). Medical Comprehensive Care		
1-2						
2-3			Psychiatry			
3-4						
4-5	C.P.C.		Special Lect.			

DETAILED SCHEDULE
MEDICAL COMPREHENSIVE CARE

Morning:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Group I { A B	Pediatrics Medicine	Medicine Pediatrics	Pediatrics Medicine	<i>All Groups</i> (9:00-10:00) Lecture (10:00-11:30) Medical Grand Rounds (12:00-1:00) Radiology	Medicine Pediatrics	<i>All Groups</i> Special Conference
II { C D	Seminar Sp'ty Elec.	Sp'ty Elec. Seminar	Seminar Medicine S		Sp'ty Elec. Seminar	
Afternoon:						
I { A B	{ Seminar Pediatrics Sp'ty Elec.	Sp'ty Elec. Seminar	<i>All Groups</i> (2:00-3:00) Psychiatry (3:00-4:00) Com. Care Conf (4:00-5:00) Special Lecture	Seminar Sp'ty Elec. Psychiatry Medicine	{ Seminar Pediatrics Medicine Psychiatry (4:00-5:00) <i>All Groups</i> Pediatric Grand Rounds	
II { C D	Psychiatry Medicine	Medicine Psychiatry				

SLOAN-KETTERING DIVISION

GRADUATE SCHOOL OF MEDICAL SCIENCES

BY AGREEMENT dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College.

Under this agreement, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

Representatives of Memorial Hospital

John M. Walker

B. Brewster Jennings

Representatives of Sloan-Kettering Institute

Warren Weaver

Frank L. Horsfall, Jr.

Representatives of Cornell University

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees
James Alfred Perkins, President of the University

Representatives of the Society of the New York Hospital

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of a thirteen-story laboratory unit at 410 East 68th Street, New York City, the Polak Building at 112 Pacific Street, Brooklyn, and the Walker Laboratory at 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. The New York City laboratory is in direct connection with two hospitals; Memorial Hospital, a voluntary institution of 280 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences but not in any of the clinical fields. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

BIOCHEMISTRY

AARON BENDICH, Professor of Biochemistry
 OSCAR BODANSKY, Professor of Biochemistry
 GEORGE B. BROWN, Professor of Biochemistry
 LIEBE F. CAVALIERI, Professor of Biochemistry
 C. CHESTER STOCK, Professor of Biochemistry

M. EARL BALIS, Associate Professor of Biochemistry
 RALPH K. BARCLAY, Associate Professor of Biochemistry
 JACK J. FOX, Associate Professor of Biochemistry
 MARY L. PETERMANN, Associate Professor of Biochemistry
 MORTON K. SCHWARTZ, Associate Professor of Biochemistry

ELLEN BORENFREUND, Assistant Professor of Biochemistry
 JOHN F. CODINGTON, Assistant Professor of Biochemistry
 PAUL J. FODOR, Assistant Professor of Biochemistry
 SAUL GREEN, Assistant Professor of Biochemistry
 DIETRICH HOFFMANN, Assistant Professor of Biochemistry
 JEROME S. NISSELBAUM, Assistant Professor of Biochemistry
 GIULIO C. PERRI, Assistant Professor of Biochemistry
 JOSEPHINE S. SALSER, Assistant Professor of Biochemistry
 VLADIMIR P. SKIPSKI, Assistant Professor of Biochemistry
 HELEN Q. WOODARD, Assistant Professor of Biochemistry

Research Associates:

Willi Kreis

Samuel J. Levin

Intensive study is offered in the fields of enzymology, immunochemistry and chemistry, and metabolism of proteins and nucleoproteins.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

FRANK L. HORSFALL, JR., Professor of Microbiology
 FREDERICK S. PHILIPS, Professor of Pharmacology
 GEORGE W. WOOLLEY, Professor of Biology

CHARLOTTE FRIEND, Associate Professor of Microbiology
 LEONARD D. HAMILTON, Associate Professor of Biology
 DORRIS J. HUTCHISON, Associate Professor of Microbiology
 JOHN A. JACQUEZ, Visiting Associate Professor of Biology
 WILLIAM L. MONEY, Associate Professor of Biology
 ALICE E. MOORE, Associate Professor of Biology
 H. CHRISTINE REILLY, Associate Professor of Microbiology
 MARJORIE B. ZUCKER, Associate Professor of Physiology

ETIENNE DE HARVEN, Assistant Professor of Biology
 JOHN J. HARRIS, Assistant Professor of Biology
 WILBUR F. NOYES III, Assistant Professor of Biology
 LLOYD J. OLD, Assistant Professor of Biology

HERBERT S. SCHWARTZ, Assistant Professor of Pharmacology
 FRANCIS M. SIROTNAK, Assistant Professor of Microbiology
 MORRIS N. TELLER, Assistant Professor of Biology

Research Associates:

June L. Biedler
 James G. Cappuccino

Louis Kaplan
 Robert W. Speir

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, genetics, and virology. A brief specialized course is offered in the Chemotherapy of Cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, mathematics (through calculus), anatomy, general biology or general zoology or general botany, general microbiology, pathogenic bacteriology, physiology, cytology, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

JOHN S. LAUGHLIN, Professor of Biophysics

EDWARD R. EPP, Assistant Professor of Biophysics
 HAROLD MOROSON, Assistant Professor of Biophysics
 IRA PULLMAN, Assistant Professor of Biophysics

Research Associates:

Karin R. Corey

Peter J. Kenny

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of metabolism of various isotope-labeled compounds in man and other mammalian systems; the measurement of radiation by calorimetric,

radiation-chemical, ionization, or crystal detectors; the experimental measurement of total X-ray, gamma-ray, and electron spectra; the determination of free radical activity in compounds of biological importance by means of electron spin resonance; the determination of trace elements in biologically important compounds; metabolism of biologically important compounds in tissue cultures of human tumor cells and effects of ionizing radiation and ultraviolet light on bacteria, bacteriophage, and deoxyribonucleic acid (DNA) at the macromolecular level.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

GILBERT DALLDORF, Professor of Pathology
FRANK W. FOOTE, JR., Professor of Pathology
FRED W. STEWART, Professor of Pathology, Emeritus

JØRGEN E. FOGH, Associate Professor of Pathology
LEOPOLD G. KOSS, Associate Professor of Pathology
STEPHEN S. STERNBERG, Associate Professor of Pathology
HELENE W. TOOLAN, Associate Professor of Pathology

JOHN W. BERG, Assistant Professor of Pathology
CHARLES P. MILES, Assistant Professor of Pathology

Research Associates:

Robert V. P. Hutter Frederick H. Shipkey
Myron R. Melamed

Special facilities are available for investigation in quantitative cytology and cellular pathology by newer optical methods, cytophysical methods including radioautography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

EMERSON DAY, Professor of Preventive Medicine

RICHARD H. OSBORNE, Associate Professor of Preventive Medicine
LEO WADE, Associate Professor of Preventive Medicine
ERNEST L. WYNDER, Associate Professor of Preventive Medicine

GENEVIEVE M. BADER, Assistant Professor of Preventive Medicine
LOUIS VENET, Assistant Professor of Preventive Medicine

Research Associates:

Frances V. DeGeorge Thomas S. Zimmer
Elaine G. Diacumakos

The department offers opportunities for research in human genetics and in the epidemiology of cancer. Research and training can also be arranged in the laboratory aspects of the biological testing and chemical analysis of environmental agents. Programs in these fields can be organized with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

INTERNSHIP APPOINTMENTS*

CLASS OF 1963

Anderson, Gerald A.	Mx-Med.	University of Kentucky Hospitals, Lexington, Ky.
Atkinson, Arthur J., Jr.	Med.	Massachusetts General Hospital, Boston, Mass.
Barry, Terrence J.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Bell, J. Bruce	Rot.	King County Hospital, Seattle, Washington
Berk, Dennis P.	Mx-Med.	University Hospitals, Madison, Wisconsin
Bienstock, Paul A.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Binford, Robert T., Jr.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Bloch, H. Spencer	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Blumenschein, George R.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Bohan, Francis M.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Brereton, William F., Jr.	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Brewster, Hollister P.	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Burgert, Woodward, Jr.	Mx-Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Carpenter, Charles W.	Surg.	The New York Hospital, New York, N.Y.
Coatsworth, James J.	Med.	King County Hospital, Seattle, Washington
Copeland, Edward M. III	Surg.	University of Pennsylvania Hospital, Philadelphia, Pa.
Deely, William J.	Rot.	U.S. Naval Hospital, Portsmouth, Va.
Deignan, Joseph M., Jr.	Surg.	Medical College of Virginia Hospital, Richmond, Va.
deParedes, Carlos G. G.	Surg.	Boston City Hospital, 5th Division, Boston, Mass.
Dicus, Richard B.	Med.	Grady Memorial Hospital, Atlanta, Georgia
Dieterle, Carl H.	Surg.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Dill, Franklin G.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Douglas, Steven D.	Med.	Mount Sinai Hospital, New York, N.Y.
Dyer, Richard H., Jr.	Surg.	Genesee Hospital, Rochester, N.Y.
Ehrlich, Richard M.	Surg.	The New York Hospital, New York, N.Y.
Fegen, J. Peter, Jr.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Forde, Thomas P.	Med.	The New York Hospital, New York, N.Y.
Fortuin, Floyd D.	Rot.	King County Hospital, Seattle, Washington
Gershon, Michael D.	—	No Internship
Goldstein, Jonathan V.	Surg.	University of Pennsylvania Hospital, Philadelphia, Pa.
Guy, Roscoe B.	Mx-Med.	Upstate Medical Center, Syracuse, N.Y.
Hahn, Lewis C.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Hatcher, Robert A.	Rot.	Grady Memorial Hospital, Atlanta, Georgia
Heinze, Everett G., Jr.	Rot.	Henry Ford Hospital, Detroit, Michigan
Hill, Charles H.	Surg.	University of Virginia Hospital, Charlottesville, Va.
Holmes, King K.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Horne, Jonathan H.	Surg.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Hull, Charles E.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Johnson, Marriott C., Jr.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Jordan, Louis R.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Karetzky, Monroe S.	Rot.	Mary Imogene Bassett Hospital, Cooperstown, N.Y.
Krauss, Alfred N.	Rot.	Long Island Jewish Hospital, New York, N.Y.
Kulin, Howard E.	Ped.	Children's Hospital Medical Center, Boston, Mass.
Loehr, Walter J.	Surg.	The New York Hospital, New York, N.Y.
Marcotte, David B.	Surg.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Mazyck, Arthur	Med.	Vanderbilt University Hospital, Nashville, Tenn.
McIvor, John W.	Surg.	Bellevue Hospital, 2nd Division, New York, N.Y.
Mead, Philip B.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Mehldau, Craig A.	Surg.	University of Virginia, Charlottesville, Va.
Miller, Elinor	Med.	Michael Reese Hospital, Chicago, Ill.
Moore, Conner M.	Med.	Boston City Hospital, V & VI Divisions, Boston, Mass.

Morey, John P.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Moritz, Timothy B.	Med.	The New York Hospital, New York, N.Y.
Nagel, Theodore C.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Nagy, Brian R.	Mx-Med.	Roosevelt Hospital, New York, N.Y.
O'Connell, Ralph A.	Surg.	St. Vincent's Hospital, New York, N.Y.
O'Toole, Richard D.	Rot.	King County Hospital, Seattle, Washington
Padar, Stephen C.	Surg.	The New York Hospital, New York, N.Y.
Paolitto, Frank J.	Med.	Michael Reese Hospital, Chicago, Ill.
Parisi, Alfred F.	Med.	Peter Bent Brigham, Boston, Mass.
Peterson, Kirk L.	Med.	The New York Hospital, New York, N.Y.
Redstone, Paul A.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Reeves, Alexander G.	Med.	Duke Hospital, Durham, N.C.
Schmitt, Barton D.	Ped.	University of Minnesota Hospital, Minneapolis, Minn.
Schmutz, Donald A.	Mx-Med.	St. Luke's Hospital, New York, N.Y.
Scholtz, Stephen	Rot.	University of Utah Affiliated Hospitals, Salt Lake City
Sherlock, Joel E.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Spencer, Louis M.	Med.	University of California Hospitals, Los Angeles, Calif.
Storey, Benjamin B.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Sucsy, Richard G.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Taliak, Martin B., Jr.	Surg.	Cleveland Metropolitan Hospital, Cleveland, Ohio
Tucker, Garrett R., III	Surg.	The New York Hospital, New York, N.Y.
Turner, Edwin A., Jr.	Rot.	U.S. Public Health Service
Tyler, William S.	Med.	Boston City Hospital, V & VI Divisions, Boston, Mass.
Wallens, Donald E.	Ped.	University of California Hospitals, Los Angeles, Calif.
Wegryn, Robert L.	Mx-Med.	Genesee Hospital, Rochester, N.Y.
Weiss, Martin H.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Wieneke, Kuhrt, Jr.	Surg.	The New York Hospital, New York, N.Y.
Winchester, Robert J.	Med.	The New York Hospital, New York, N.Y.
Winker, Joel E.	Rot.	U.S. Naval Hospital, Great Lakes, Ill.
Woodrow, Steven I.	Surg.	The New York Hospital, New York, N.Y.
Wunsh, Stuart E.	Rot.	Lenox Hill Hospital, New York, N.Y.

Class of 1962

Hare, Daphne K.	Med.	Buffalo General Hospital, Buffalo, N.Y.
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* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1963-1964

FOURTH YEAR

Jerry Lee Acosta, A.B. 1960, Cornell University	Pueblo, Colo.
John Evi Adams, A.B. 1959, Swarthmore College	Chapel Hill, N.C.
James Ernst Bernstein, A.B. 1960, Harvard College	New York, N.Y.
Jerome Wolf Bettman, Jr., A.B. 1960, Stanford University	San Francisco, Calif.
Sarah Dietrick Blumenschein, A.B. 1960, Wellesley College	Bronxville, N. Y.
Paxton Cady, A.B. 1952, Harvard College; Ph.D. 1961, University of California	Berkeley, Calif.
William Lowell Campbell, A.B. 1960, Duke University	Parkersburg, W. Va.
Robert Joseph Capone, A.B. 1960, Columbia College	Glen Rock, N.J.
David Lawrence Cappiello, A.B. 1960, Harvard College	Auburn, N.Y.
Donald Catino, A.B. 1960, Princeton University	Bloomfield, N.J.
David Nemser Cohen, A.B. 1960, Yale University	West Hartford, Conn.
John Milton Coletti, Jr., B.S. 1960, Univ. of Wyoming	Salt Lake City, Utah
Bernhoff Allen Dahl, B.S. 1960, Wheaton College	Hackensack, N.J.
Ira Stephen Davis, A.B. 1960, Cornell University	Niagara Falls, N.Y.
Lewis Martin Drusin, B.S. 1960, Union College	Briarcliff, N.Y.
Burton Arthur Dudding II, A.B. 1960, Harvard College	Parkersburg, W. Va.
Bruce Eugene Dunn, A.B. 1960, Providence College	Roosevelt, N.Y.
Nanci-Ames Early, A.B. 1960, Duke University	Oklahoma City, Okla.
Thomas Michael Josef Engelsing, A.B. 1960, Harvard College	Berkeley, Calif.
John Theodore English, Jr., B.A. 1960, Williams College	Irvington, N.J.
Gerald David Fischbach, B.A. 1960, Colgate University	New Rochelle, N.Y.
John Nathan Follansbee, B.S. 1957, United States Military Academy	New York, N.Y.
Hilton Lawrence Fowler, A.B. 1960, Bowdoin College	Ellsworth, Me.
Newton Joseph Friedman, A.B. 1960, Cornell University	Chicago, Ill.
Anne Angen Gershon, A.B. 1960, Smith College	New York, N.Y.
Nikolas Golosow, A.B. 1960, Stanford University	South Nyack, N.Y.
David Kelsey Gordin, A.B. 1961, Dartmouth College	Connersville, Indiana
John Joseph Granato, Jr., B.S. 1960, Manhattan College	Brooklyn, N.Y.
Marshall Leslie Grode, A.B. 1960, Cornell University	Atlantic Beach, N.Y.
Merritt Richard Hait, B.S. 1960, Stanford University	San Jose, Calif.
Philip Mitchell Hatfield, A.B. 1960, Amherst College	Miami, Fla.
Arthur Hull Hayes, A.B. 1955, University of Santa Clara; M.A. 1957, Oxford University	New York, N.Y.
David Milton Heimbach, A.B. 1960, Cornell University	Lakewood, Ohio
Daniel Leslie Jackson, A.B. 1961, Dartmouth College	Rockaway, N.J.
Frances Jean Judy, A.B. 1960, Carleton College	Spokane, Wash.
Kim Alan Keeley, A.B. 1960, Yale University	Pleasantville, N.Y.
Thomas Barland Keith, A.B. 1960, Amherst College	Marion, Iowa
Otto Gustav Klein, Jr., B.A. 1960, Stanford University	Helena, Mont.
Robert Henry Knopp, A.B. 1960, Colgate University	Hamburg, N.Y.
David John La Gasse, A.B. 1960, Brown University	Bloomfield, N.J.
Richard Griffin Lennon, B.A. 1960, Hamilton College	Weehawken, N.J.
Issac Louis Lesser, A.B. 1960, Washington University	Mitchell, S. Dak.
Louis David Levi, B.A. 1960, Harvard College	New York, N.Y.
Karl George Mangold, B.S. 1959, University of Notre Dame	White Plains, N.Y.
Nola Rosanoff Marx, A.B. 1959, Cornell University	Staten Island, N.Y.
Victoria Anne Middleton, A.B. 1961, University of Utah	Salt Lake City, Utah
Belle Sumter Miller, B.S. 1960, Stanford University	West Orange, N.J.
James McCalmont Miller, A.B. 1960, Hamilton College	Suffield, Conn.
Brian George Miscall, A.B. 1960, Syracuse University	Forest Hills, N.Y.
John Bennett Morrison, St. Lawrence University	Harrison, N.Y.

Kenneth Eugene Mott, B.S. 1961, Purdue University	Lafayette, Ind.
Dennis Sophian O'Leary, A.B. 1960, Harvard College	Mission, Kans.
Emily Fowler Omura, B.A. 1960, Barnard College	Oklahoma City, Okla.
Lawrence William Raymond, B.C.E. 1956, Manhattan College;	
M.S. 1957, Harvard University	Albany, N.Y.
Robert Hamilton Reid, A.B. 1960, Dartmouth College	Radnor, Pa.
Byron William Riegel, B.S. 1960, Stanford University	Evanston, Ill.
Joseph Elliott Ringland, A.B. 1960, Washington & Lee University	Irvington-on-Hudson, N.Y.
Richard Mark Robbins, B.S. 1960, Yale University	Trenton, N.J.
William Herbert Robischon, B.S. 1960, Manhattan College	Newburgh, N.Y.
Michael Freeman Rodi, B.A. 1960, Pomona College	San Marino, Calif.
Stephen Addison Ross, A.B. 1960, Williams College	Neptune City, N.J.
Jack Sherman Rounds, Jr., A.B. 1960, Pomona College	Los Angeles, Calif.
Richard Ronald Sabo, B.S. 1961, University of Notre Dame	Bozeman, Montana
Robert Miles Schmidt, B.S. 1960, Yale University	Milwaukee, Wis.
Robert D. Schrock, Jr., A.B. 1960, Princeton University	Omaha, Neb.
Michael Norman Schwartz, A.B. 1960, Columbia University	Brooklyn, N.Y.
Frederick William Schweizer, B.A. 1960, Williams College	Union, N.J.
Gino Victor Segre, A.B. 1960, Princeton University	Forest Hills, N.Y.
John Robert Sellman, A.B. 1960, Pomona College	Los Angeles, Calif.
Philip Burton Serlin, A.B. 1960, Dartmouth College	Bridgeport, Conn.
Thomas Charles Shope, A.B. 1960, State Univ. of Iowa	Kingston, N.J.
Barton Lowell Smith, B.S. 1960, Albright College	Reading, Pa.
Jerry LePow Spivak, A.B. 1960, Princeton University	Detroit, Mich.
Charles Robb Steinberg, A.B. 1960, Brown University	Yonkers, N.Y.
Jane Boyden Thomson, A.B. 1960, Cornell University	Buffalo, N.Y.
Peter Dickson Tyler, A.B. 1960, Cornell University	South Hadley, Mass.
John David Van Der Decker, A.B. 1959, Houghton College	Caldwell, N.J.
Theodore Van Putten, A.B. 1960, Rutgers University	South Orange, N.J.
Thomas Rae Vaughan, Jr., B.S. 1959, Yale University	Bronxville, N.Y.
Gary I. Wadler, B.S. 1960, Brooklyn College	Brooklyn, N.Y.
Winthrop Peabody Wilcox, A.B. 1960, Bucknell University	Chevy Chase, Md.
George Frederick Will, Jr., A.B. 1960, Amherst College	New York, N.Y.
John Derrick Wilsey, B.S. 1960, Davidson College	Winston Salem, N.C.
John Robert Wilson, A.B. 1960, Cornell University	Garden City, N.Y.
Robert Lee Wilson, B.S. 1960, Tufts University	Burlington, Vt.
Judith Joanne Woodruff, B.S. 1960, University of Massachusetts	Newton, Mass.
John Leverett Ziegler, A.B. 1960, Amherst College	Wilton, Conn.

THIRD YEAR

Jonathan Loewy Adler, A.B. 1961, Colgate University	Red Bank, N.J.
Stephen Barry Alberg, A.B. 1961, Oberlin College	Englewood, N.J.
James Paul Baden, A.B. 1961, Cornell University	Hamilton, Ohio
Carl Bancoff, A.B. 1960, Cornell University	Philadelphia, Pa.
Bruce Ryan Bistran, B.A. 1961, New York University	Amagansett, N.Y.
Joseph Anthony Boccia, A.B. 1961, St. Peter's College	Brooklyn, N.Y.
Richard A. Borrison, B.S. 1961, Allegheny College	Freeport, Pa.
Peter Frederick Bourlier, A.B. 1961, Georgetown University	Syracuse, N.Y.
James Augustine Burns, B.S. 1961, Manhattan College	New York, N.Y.
John Joseph Caronna, B.A. 1961, Fordham University	Jackson, Heights, N.Y.
Phillip John Catanzaro, B.S. 1961, St. Peter's College	Jersey City, N.J.
Barry Allan Cohen, B.A. 1961, Cornell University	Scarsdale, N.Y.
Lawrence Cohen, B.S. 1957, United States Naval Academy	Nyack, N.Y.
James Norman Davis, B.A. 1961, Cornell University	Greak Neck, N.Y.
David Tappen Dennis, A.B. 1961, Whitman College	Portland, Oregon
Joseph David Dickerman, A.B. 1960, Johns Hopkins University	New York, N.Y.
Richard Frederick Dietz, B.S. 1961, Georgetown University	Flushing, N.Y.
Edward John Eberhard, B.S. 1959, United States Military Academy	Canton, Ohio
Rudolph Henry Ehrensing, B.S. 1961, University of Notre Dame	New Orleans, La.
Anton Farny Eilers, B.S. 1960, University of Wyoming	Haden Lake, Idaho

- Richard Andrew Ellison, B.S. 1961, St. Lawrence University
 Michael John Errico, B.A. 1961, Yale University
 Karl Eurenien, A.B. 1960, Cornell University
 Edmund Francis Fallon, A.B. 1961, Providence College
 James Russell Farina, B.A. 1961, University of Minnesota
 Gerald David Fischbach, B.A. 1960, Colgate University
 Nicholas John Fortuin, A.B. 1961, Columbia University
 Joseph Charles Fratantoni, B.S. 1959, Fordham University;
 A.M. 1961, Harvard University
 Ronald Henry Geiger, A.B. 1961, University of Rochester
 John Spellman Glenn, B.S. 1959, Massachusetts Institute of Technology;
 M.S. 1961, Duke University
 Anthony Allen Goodman, B.A. 1961, Harvard College
 Jeffrey Harold Gordon, B.A. 1961, Amherst College
 Robert Joseph Gottlieb, A.B. 1961, University of Rochester
 Richard Farries Greminger, B.A. 1961, Princeton University
 Richard Luis Guerrero, A.B. 1960, University of Massachusetts
 Robert Edward Gwynn, A.B. 1959, Stanford University
 George Edwin Hardy, Jr., B.A. 1961, Albion College
 Richard Makoto Hirata, B.S. 1958, United States Military Academy
 John Othniel Ives, A.B. 1961, Princeton University
 Jack Edward Jackson, B.A. 1956, Michigan State University;
 M.S. 1960, Ph.D. 1963, Northwestern University
 William Simpson Kammerer, Cornell University
 Gustav Edward Kappler III, B.A. 1961, Cornell University
 Dick Katzin, A.B. 1956, Cornell University
 Jeremy Jon Kaye, B.S. 1961, University of Notre Dame
 Edwin Allen Kayser, Jr., B.A. 1961, Cornell University
 Edgar Jackson Kenton III, B.A. 1961, Rutgers University
 Thomas Edward Kohn, B.A. 1961, Amherst College
 Harold George Kunz, Jr., B.A. 1961, Cornell University
 Robert Philip LaFiandra, A.B. 1961, Columbia University
 Jon Lawson Landeen, B.S. 1961, University of Wyoming
 Edward Thomas Lawson, A.B. 1961, Dartmouth College
 Lawrence Paul Levitt, B.S. 1961, Queens College
 Laurice Jean Liddil, A.B. 1961, Stanford University
 Kenneth James Lippman, B.A. 1960, Tufts University
 Morton Daniel Lynn, A.B. 1961, Dartmouth College
 W. Peter McCabe, A.B. 1961, Harvard College
 Irvine Gray McQuarrie, B.A. 1961, University of Utah
 Jack Edward Meyer, B.A. 1961, Grinnell College
 Kevin Peter Morrissey, A.B. 1961, Williams College
 Charles Erik Nye, B.A. 1961, Stanford University
 Caldwell Hardy Oliver, Jr., B.A. 1961, Yale University
 Michelle Gabrielle Palmieri, A.B. 1961, Mount Holyoke
 Deborah Reed Pavan, A.B. 1961, Radcliffe College
 Robert Anthony Pezzulich, A.B. 1961, Cornell University
 Lance David Redler, A.B. 1962, Cornell University
 Terry Reid Rogers, B.A. 1961, Dartmouth College
 Lewis Mark Rothman, B.A. 1961, Cornell University
 Paul Laurence Samuelson, B.A. 1961, Williams College
 Howard Peter Schiele, B.A. 1961, Columbia College
 Richard Alan Schwartz, A.B. 1960, Cornell University
 Robert Douglas Schweizer, A.B. 1961, Princeton University
 Robert Martin Segaul, B.A. 1961, Cornell University
 Joseph Michael Seventko, B.E. 1960, Stevens Institute of Technology
 Steven Hugh Sewall, B.A. 1961, Brown University
 Stephen Daniel Shappell, A.B. 1961, Columbia University
 Dennis Hugh Stephens, B.S. 1962, University of Utah
 Richard Philip Stewart, B.A. 1961, Johns Hopkins University
 Thomas Robert Swift, B.A. 1961, Trinity College
 Hillel Isaiah Swiller, B.A. 1961, Cornell University
- Jackson Heights, N.Y.
 Bloomfield, N.J.
 Wilmington, Del.
 Jackson Heights, N.Y.
 New Buffalo, Mich.
 New Rochelle, N.Y.
 Ridgewood, N.J.
 Brooklyn, N.Y.
 West Milford, N.J.
 Washington, D.C.
 New York, N.Y.
 Albany, N.Y.
 New York, N.Y.
 Cambridge, N.Y.
 Chelmsford, Mass.
 Nouato, Calif.
 Midland, Mich.
 Maui, Hawaii
 Norwalk, Conn.
 Clinton, N.J.
 Whitestone, N.Y.
 Lake Ronkonkoma, N.Y.
 Maplewood, N.J.
 Rhinelander, Wisc.
 Wilmette, Ill.
 Camden, N.J.
 Milwaukee, Wisc.
 Montclair, N.J.
 New York, N.Y.
 Sheridan, Wyo.
 Tarrytown, N.Y.
 Bronx, N.Y.
 Cincinnati, O.
 Harrison, N.Y.
 West Orange, N.J.
 Providence, R.I.
 Ogden, Utah
 Davenport, Iowa
 Jackson Heights, N.Y.
 Minneapolis, Minn.
 Urbana, Ill.
 New York, N.Y.
 Quantum, Mass.
 Clark, N.J.
 Bayside, N.Y.
 Bernardsville, N.J.
 Eastchester, N.Y.
 Yonkers, N.Y.
 Yonkers, N.Y.
 Shaker Heights, Ohio
 Union, N.J.
 Utica, N.Y.
 Clifton, N.J.
 West Hartford, Conn.
 Yonkers, N.Y.
 Ogden, Utah
 Passaic, N.J.
 Brooklyn, N.Y.
 Brooklyn, N.Y.

Charles Frederick Thurber, B.A. 1961, Colgate University
 Elinor Toaz, B.A. 1961, Wellesley College
 Frank Anthony Tomao, B.S. 1961, Manhattan College
 Robert John Towers, B.S. 1961, University of Utah
 Peter Tsairis, B.S. 1960, Trinity College
 Betty Ann Ward, A.B. 1961, Boston University
 Edward Lloyd Westbrook, B.A. 1961, Harvard College
 Donald Wendell Wilson, B.A. 1961, Harvard College
 Anne Stone Yeager, B.A. 1961, Cornell University
 Robert Crabill Young, B.Sc. 1961, Ohio State University

Valley Stream, N.Y.
 Huntington, N.Y.
 Staten Island, N.Y.
 Murray, Utah
 Hempstead, N.Y.
 Waverly, Pa.
 Cambridge, Mass.
 Newton, Mass.
 Baltimore, Md.
 Columbus, O.

SECOND YEAR

Carmine Bedotto, A.B. 1962, Brown University
 Randall William Bell, B.S. 1959, United States Military Academy
 John Arthur Boothby, A.B. 1962, Cornell University
 Paul David Bostrom, A.B. 1962, Princeton University
 James Wesley Bryan, B.S. 1962, Stanford University
 Laurence David Carnay, A.B. 1962, Hamilton College
 Alexander Soutar Carney, A.B. 1962, Yale University
 John Joseph Carthy, B.S. 1962, Fordham University
 Paul Stuart Clark, A.B. 1962, Princeton University
 James Franklin Corcoran, B.S. 1958, United States Military Academy
 Robert Emmet Curran, A.B. 1962, College of the Holy Cross
 Andrew Albert Dahl, A.B. 1962, Wesleyan University
 J. Thomas Davidson, A.B. 1962, Colgate University
 Peter John DeBell, A.B. 1962, Oberlin College
 John English Deitrick, Jr., A.B. 1962, Princeton University
 John Donovan Denney, A.B. 1962, University of Washington
 Michael Henry Dosik, A.B. 1962, Cornell University
 Patricia Downs, A.B. 1962, Colby College
 Francis Joseph Duggan, Jr., B.S. 1962, Fordham University
 Michael Preston Earnest, A.B. 1962, Cornell University
 Robert Michael Farrell, B.S. 1962, St. John's University
 Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross
 Arthur Eugene Fetzer, A.B. 1962, Cornell University
 Richard Howard Fine, A.B. 1962, Cornell University
 John Edward Franklin, A.B. 1961, Williams College
 David Gray Fraser, A.B. 1962, Stanford University
 Lynn Miller Gaufin, B.S. 1963, University of Utah
 Robert Dennis Geller, B.Met.E. 1962, New York University
 Michael Alan Goodfriend, A.B. 1962, Princeton University
 Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute
 John Richard Graybill, A.B. 1962, Cornell University
 Price Gripekoven, B.A. 1962, Williams College
 David Hunt Gundy, A.B. 1962, Dartmouth College
 Robert Lewis Haggerty, A.B. 1962, Bowdoin College
 Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College
 Ian Morgan Happer, B.S. 1962, University of North Carolina
 Richard Anthony Hodder, A.B. 1962, University of Notre Dame
 Robert Daniel Hoeldtke, B.A. 1962, Amherst College
 Orne Scott Hume, B.S. 1962, Queens College
 Mark Hiram Kaplan, A.B. 1962, Cornell University
 James Allan Krick, B.A. 1962, Amherst College
 Harry George Lee, A.B. 1962, Williams College
 Jay Stauffer Lehman, A.B. 1962, Amherst College
 Stuart Euster Levin, A.B. 1962, Cornell University
 Richard Uscher Levine, B.S. 1962, Tufts University
 Roger Kenneth Lewis, B.A. 1961, University of Florida
 Michael Laurence Lichtig, A.B. 1962, Cornell University
 I. Ira Mason, B.A. 1962, Columbia University

Hallandale, Fla.
 Bronx, N.Y.
 Wynnewood, Pa.
 Dover, N.J.
 Mission, Kansas
 New York, N.Y.
 Irvington, N.Y.
 New York, N.Y.
 Fayetteville, N.Y.
 Collfax, N.D.
 Rockville Centre, N.Y.
 Poughkeepsie, N.Y.
 Grand Rapids, Mich.
 Passaic, N.J.
 Bronxville, N.Y.
 Everett, Wash.
 New York, N.Y.
 Bronxville, N.Y.
 Margaretville, N.Y.
 Youngstown, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Hartsville, Pa.
 Cincinnati, Ohio
 New York, N.Y.
 New York, N.Y.
 Midvale, Utah
 Bayside, N.Y.
 Montrose, N.Y.
 New York, N.Y.
 Abington, Pa.
 Bronxville, N.Y.
 Rye, N.Y.
 Hackensack, N.J.
 Closter, N.J.
 Lenoir, N.C.
 Yonkers, N.Y.
 Buffalo, N.Y.
 Bethpage, N.Y.
 Brooklyn, N.Y.
 Washington, D.C.
 Short Hills, N.J.
 Ardmore, Penn.
 Cincinnati, Ohio
 West Englewood, N.J.
 West Palm Beach, Fla.
 Rumson, N.J.
 Bronx, N.Y.

Herbert Odell Mathewson, A.B. 1962, Cornell University
 James J. McSweeney, Jr., A.B. 1962, Cornell University
 Glenn Adair Meltzer, B.A. 1962, Clark University
 Anthony Wayne Middleton, Jr., B.S. 1963, University of Utah
 Irving William Olender, A.B. 1962, Cornell University
 David Michael Ozonoff, B.S. 1962, University of Wisconsin
 Jacqueline Gail Parthemore, A.B. 1962, Wellesley College
 Arnold Eugene Postlethwaite, A.B. 1962, West Virginia University
 Robert Paul Radin, B.A. 1962, University of Virginia
 Kenneth Ned Rankin, A.B. 1962, Dartmouth College
 Donald Laurence Resnick, A.B. 1962, Hamilton College
 Thomas William Revak, A.B. 1960, Cornell University
 Morris Mark Richman, A.B. 1962, Cornell University
 Stewart Samuel Richmond, B.A. 1962, Amherst College
 Donald Allen Roberts, B.S. 1962, Washington State University
 Paul Frederick Schellhammer, B.S. 1962, University of Notre Dame
 Carl Frederick Schiller, B.S. 1962, Yale University
 Steven Kalman Secunda, A.B. 1962, Harvard University
 William Arthur Selvey, B.S. 1962, Hobart College
 Mark Melvin Sherman, A.B. 1962, Clark University
 Garry Lee Smith, B.S. 1962, University of Oklahoma
 John Quinn Stauffer, A.B. 1962, Princeton University
 Arthur Harold Stein, A.B. 1962, Harvard University
 Susan Cobb Stewart, B.A. 1962, Smith College
 Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College
 Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University
 Gerald Roman Sydorak, B.S. 1963, Cornell University
 David Neil Tucker, B.S. 1963, Tufts University
 John Chapman Urbaitis, B.S. 1962, Allegheny College
 John Reed Welch, B.A. 1961, University of Arizona
 John Price Witwer, B.A. 1962, Amherst College
 David Frank Wood, A.B. 1962, Brown University
 Frank James Zlatnik, B.A. 1962, Carleton College

Pelham, N.Y.
 Lynn, Mass.
 Worcester, Mass.
 Salt Lake City, Utah
 Amsterdam, N.Y.
 Milwaukee, Wisc.
 Narberth, Pa.
 New Martinsville, W.Va.
 Tuckahoe, N.Y.
 Cleveland, Ohio
 New Rochelle, N.Y.
 Mt. Carmel, Pa.
 Philadelphia, Pa.
 Concord, N.H.
 Richland, Wash.
 Larchmont, N.Y.
 Hershey, Pa.
 West Newton, Mass.
 South Nyack, N.Y.
 Worcester, Mass.
 Tulsa, Okla.
 Petersburg, W.Va.
 Norfolk, Va.
 Cleveland, Ohio
 Jefferson City, Mo.
 San Diego, Calif.
 New York, N.Y.
 Great Neck, N.Y.
 Warren, Pa.
 Tucson, Ariz.
 Radnor, Pa.
 Lyons, N.Y.
 Two Rivers, Wisc.

FIRST YEAR

Robert Powers Ainsworth, B.E. 1962, Yale University
 William John Conrad Amend, Jr., B.A. 1963, Amherst College
 Judith Lois Axelrod, A.B. 1963, Wellesley College
 Robert Joseph Binder, B.A. 1963, Williams College
 Joseph Patrick Bohan, B.S. 1963, Manhattan College
 Richard Joseph Castiello, B.A. 1963, Williams College
 David Rubin Chipkin, B.S. 1963, Dickinson College
 Francis Vincent Chisari, A.B. 1963, Fordham University
 Orlo Herrick Clark, A.B. 1963, Cornell University
 Cal K. Cohn, A.B. 1963, Columbia University
 James John Crossley, A.B. 1963, Princeton University
 Kermit Wayne Dewey, A.B. 1963, Cornell University
 Dean Stuart Edell, A.B. 1963, Cornell University
 Ronald Charles Eggert, A.B. 1963, Dartmouth College
 Albert Brooks Einstein, Jr., A.B. 1963, Princeton University
 Robert Stephan Ennis, A.B. 1963, Columbia University
 Frank Owen Evans, Jr., B.S. 1963, Washington & Lee University
 Yale Lloyd Fisher, Cornell University
 John Halm Galla, B.S. 1958, United States Naval Academy
 Sally Jane Greenstein, Cornell University
 John Alan Grossman, A.B. 1963, Princeton University
 Paul Leonard Gunderson, B.S. 1963, Wheaton College
 Sandra Lynn Gustafson, A.B. 1962, Wellesley College
 Charles Hennekens, B.S. 1963, Queens College
 John Jacob Hill, A.B. 1963, San Diego State College

Columbus, O.
 Wilmington, Del.
 Clinton, Mass.
 West Englewood, N.J.
 New York, N.Y.
 Bethesda, Md.
 Flushing, N.Y.
 Bronxville, N.Y.
 Nutley, N.J.
 New York, N.Y.
 Watertown, N.Y.
 Malone, N.Y.
 New York, N.Y.
 Riverside, Conn.
 Baltimore, Md.
 Whitestone, N.Y.
 Milledgeville, Ga.
 Glen Rock, N.J.
 Bridgeport, Conn.
 New York, N.Y.
 New York, N.Y.
 Muscatine, Iowa
 Worcester, Mass.
 Flushing, N.Y.
 La Mesa, Calif.

- William Vincent Hindle, Jr., A.B. 1963, Dartmouth College
 Anita Marie Margaret Hollmer, B.S. 1961, M.S. 1963, Cornell University
 William Russel Hunt, A.B. 1963, Harvard University
 Wagdy Maher Kamel, B.S. 1963, St. Peter's College
 Robert Allen Charles Kaye, A.B. 1963, Drew University
 Gerald Thomas Keegan, B.S. 1963, St. Peter's College
 John Francis Killilea, Jr., B.A. 1962, University of Notre Dame
 Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College
 Robert Tulloch Lacy, A.B. 1963, Yale University
 Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College
 Richard Michael Lumiere, A.B. 1963, Cornell University
 John Leon Marquardt, A.B. 1963, John Carroll University
 Hayes Senyi Martin, A.B. 1962, Brown University
 Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University
 Ira Mehlman, A.B. 1963, Princeton University
 Kimball Ivan Maull, A.B. 1963, University of Virginia
 Mark Harold Miller, A.B. 1963, Cornell University
 William David Miller, A.B. 1963, Cornell University
 Susan Carol Moss, A.B. 1963, Cornell University
 Richard Stuart Muchnick, A.B. 1963, Cornell University
 Steven Anthony Muller, B.C.E. 1963, Cornell University
 Charles Ronald Nicolosi, B.S. 1963, Manhattan College
 Neil Francis O'Donohue, B.S. 1963, Fordham College
 Michael Oliphant, A.B. 1963, Columbia University
 Lawrence William Osborn, B.A. 1963, Amherst College
 David Allan Parker, A.B. 1963, Harvard University
 Charles Alfred Peterson, A.B. 1961, Dartmouth College;
 M.F. 1963, Yale University
 Paul Edwin Pierce, A.B. 1963, Northwestern University
 William Baldwin Pohle, A.B. 1963, Harvard University
 Rowland Walker Pritchard, A.B. 1962, Dartmouth College
 Arthur Charles Rettig, Jr., A.B. 1963, Yale University
 William Louis Rice, A.B. 1963, Bowdoin College
 William Thomas Riley, Jr., A.B. 1963, Princeton University
 Delbert Glen Ririe, University of Utah
 John Patrick Rooney, B.S. 1963, John Carroll University
 Steven Leonard Rosen, A.B. 1963, Harvard University
 William Leslie Rutherford, A.B. 1963, Stanford University
 Christopher Dyer Saudek, A.B. 1963, Harvard University
 Donald Allen Schlernitzauer, A.B. 1963, Cornell University
 Robert Gary Schwager, A.B. 1963, University of Virginia
 Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross
 Robert Willard Scott, B.S. 1963, Ohio State University
 Stephen Robert Severance, Cornell University
 John Henry Shenasky II, A.B. 1963, Cornell University
 Bruce Duncan Simonds, B.S. 1963, Cornell University
 William Patrick Soles, A.B. 1963, University of Utah
 Frederick Peter Spin, A.B. 1963, Columbia University
 William Robert Stiles, A.B. 1963, Harvard University
 Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College
 Mark Lewis Teitelbaum, B.A. 1963, Williams College
 George Gregory Telesh, A.B. 1962, Cornell University
 John Michael Thorp, B.S. 1962, University of Rhode Island
 Edward Tsou, A.B. 1963, Rutgers University
 Anthony Paul Turel, Jr., A.B. 1963, Cornell University
 George Michael Uhran, B.S. 1963, Fordham University
 Nicholas Joseph Vianna, B.S. 1963, St. Peter's College
 H. James Wedner, A.B. 1963, Cornell University
 Burton Carey West, B.S. 1963, Amherst College
 James Burnham Wirth, A.B. 1963, Cornell University
 Dennis Watkins Wise, B.S. 1961, Wheaton College
 Russell Rudolph Zelko, A.B. 1962, Cornell University
- Cranston, R.I.
 Ithaca, N.Y.
 Poplar, Montana
 Jersey City, N.J.
 Morristown, N.J.
 Jersey City, N.J.
 Reading, Mass.
 Delmar, N.Y.
 Devon, Pa.
 Old Tappan, N.J.
 Dalton, Ga.
 Lakewood, Ohio
 New York, N.Y.
 Grand Junction, Colo.
 Brooklyn, N.Y.
 Union, N.J.
 Meadville, Pa.
 Williamsville, N.Y.
 Flushing, N.Y.
 Brooklyn, N.Y.
 Delmar, N.Y.
 New York, N.Y.
 Brooklyn, N.Y.
 New York, N.Y.
 Shaker Heights, Ohio
 Rochester, N.Y.
 Hamilton, Mont.
 Alton, Ill.
 Milwaukee, Wis.
 Stamford, Conn.
 Muncie, Ind.
 Scarsdale, N.Y.
 Atherton, Calif.
 Salt Lake City, Utah
 Stamford, Conn.
 Brighton, Mass.
 Peoria, Ill.
 Bronxville, N.Y.
 Bellaire, Ohio
 Brooklyn, N.Y.
 Pelham, N.Y.
 Scarsdale, N.Y.
 Brecksville, Ohio
 Clarksburg, W.Va.
 Beloit, Wis.
 Orem, Utah
 Brooklyn, N.Y.
 Evanston, Ill.
 Jefferson City, Mo.
 Hewlett, N.Y.
 Clifton, N.J.
 Centerdale, R.I.
 New York, N.Y.
 Kingston, Pa.
 Flushing, N.Y.
 New York, N.Y.
 Pittsburgh, Pa.
 Pittsburgh, Pa.
 New Milford, N.J.
 Warren, Ohio
 Bethlehem, Pa.

SUMMARY

Fourth Year	88
Third Year	89
Second Year	81
First year	86
Total	344

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

ABEL, DONALD W.	Surgery	78
ABEL, HENRIETTA E.	Medicine	57
ABEL, ROBERT R.	Medicine	57
ABELLO, EMILIO G., JR.	Pathology	65
ABRAHAMS, IRVING	Microbiology & Immunology	60
ABBROMS, GENE M.	Psychiatry	72
ADAMS, DANIEL W.	Obstetrics & Gynecology	62
ADELSON, EDWARD T.	Psychiatry	71
ADVOCATE, SEYMOUR	Medicine	55
AKBARI, AHKAD	Surgery	78
ALEXANDER, JAMES S.	Pediatrics	67
ALMY, THOMAS P.	Medicine	54
ANDERSON, ARTHUR F.	Pediatrics (Emeritus)	6
ANDERSON, ARTHUR A.	Psychiatry	71
ANDERSON, GERALD A.	Obstetrics & Gynecology	62
ANSEVIN, KRISTYNA D.	Anatomy	51
ANTILLON, ARNANDO	Medicine	58
ANTONVILLE, ANTHONY A.	Medicine	57
APPLEBAUM, JACOB	Surgery	78
ARBOIT, JOAN M.	Pediatrics	67
ARCE, A. ANTHONY	Psychiatry	72
ARCHIBALD, KENNETH C.	Medicine	55
ARCURI, JOSEPH	Psychiatry	72
ARDITI, LUCIAN I.	Medicine	57
ARLEN, MYRON	Surgery	80
ARMISTEAD, GEORGE C.	Medicine	55
ARMSTRONG, RODERICK A.	Psychiatry	72
ARNOLD, JAMES S.	Pathology	64
ARNOLD, WILLIAM D.	Surgery	78
ARTUSIO, JOSEPH F., JR.	Surgery; Obstetrics & Gynecology	76; 61
ASAPH, JAMES W.	Surgery	78
ASCH, THANE	Anatomy; Radiology	51; 75
ASCHEIM, ROBERT S.	Medicine	58
ASHE, BARBARA S.	Pediatrics	66
ASHMAN, STUART	Psychiatry	71
ASKARI, AMIR	Pharmacology	68
ATKINSON, SAM C.	Medicine	55
AULD, PETER A. McF	Pediatrics	66
AUSTLID, OLAV	Medicine	57
AVNET, SAMUEL	Surgery	78
AXELROD, D. ROBERT	Physiology	69
BACCAY, RENEE D.	Pediatrics	67
BADER, GENEVIEVE	Sloan-Kettering (Prev. Med.)	93
BAER, RALPH A.	Medicine	58
BAJEK, ARNOLD J.	Radiology	75
BAKER, RALPH D.	Psychiatry	71
BALENSWEIG, HOWARD D.	Surgery	78
BALIS, M. EARL	Sloan-Kettering (Biochemistry)	91
BANG, NILS U.	Medicine	55
BANTA, JOHN V.	Surgery	78
BARAS, IRVING	Surgery	77

BARAGRY, RICHARD A.	Surgery	78
BARBER, HUGH R. K.	Obstetrics & Gynecology.....	62
BARCLAY, RALPH K.	Sloan-Kettering (Biochemistry)	91
BARDIN, CLYDE W.	Medicine	58
BARNARD, BRYANT	Surgery	78
BARNES, LLOYD T.	Medicine	55
BARNES, WILLIAM A.	Surgery	77
BARNETT, CLIFFORD R.	Public Health	73
BARONDESS, JEREMIAH A.	Medicine	54
BARR, DAVID P.	Medicine (Emeritus)	6
BASILE, NEAF K.	Obstetrics & Gynecology	62
BASS, RICHARD R.	Pediatrics	66
BAUER, CHARLES H.	Pediatrics	66
BAUER, GORAN C. H.	Surgery	76
BAUMGARTNER, LEONA	Pediatrics; Pub. Health.....	66; 73
BAXTER, JAMES E.	Psychiatry	71
BAYLOR, CURTIS H.	Medicine	55
BEAL, JOHN M.	Surgery	77
BECKER, CARL G.	Pathology	65
BECKER, DAVID V.	Medicine; Radiology	54; 75
BECKER, E. LOVELL	Medicine	55
BEHRMAN, STANLEY J.	Surgery	77
BEIL, ARTHUR R., JR.	Surgery	78
BELCHER, ANNE M.	Surgery	77
BELL, BERTRAND M.	Medicine	57
BELL, JENNIFER J.	Pediatrics	67
BENDICH, AARON	Sloan-Kettering (Biochemistry)	91
BENEVENTI, FRANCIS A.	Surgery	77
BENJAMIN, BRY	Medicine	57
BENNETT, DOROTHEA	Anatomy	51
BENUA, RICHARD S.	Medicine	55
BERENBERG, SAMUEL R.	Pub. Health; Pediatrics	73; 66
BERG, JOHN W.	Sloan-Kettering (Pathology).....	93
BERGER, WILLIAM M.	Pathology	65
BERGLAND, RICHARD M.	Surgery	78
BERNSTEIN, J. S.	Medicine	57
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Associate Professors	160
Assistant Professors	279
Instructors, Assistants, etc.	636
Total	1144

SUMMARY OF SLOAN-KETTERING DIVISION STAFF

Full Professors	13
Associate Professors	20
Assistant Professors	24
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Total	71

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